



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# UltraCruz<sup>®</sup> Blocking Reagent: sc-516214

## BACKGROUND

UltraCruz<sup>®</sup> Blocking Reagent is a universal antibody diluent and blocking reagent recommended for use in immunohistochemistry (IHC), immunofluorescence (IF), Western blotting (WB), and for other research applications. UltraCruz<sup>®</sup> Blocking Reagent contains no animal-derived protein and can be used as an alternative to sera, BSA, casein, or non-fat dry milk. Traditional blocking buffers contain proteins or animal immunoglobulins which may non-specifically bind to secondary antibodies and other immunodetection reagents, resulting in high background and reduced signal. The UltraCruz<sup>®</sup> Blocking Reagent is a plant protein-derived product and is designed to stabilize diluted antibody solutions and eliminate background due to non-specific binding in different antibody-based research applications. The UltraCruz<sup>®</sup> Blocking Reagent is especially convenient in multiplex IHC (multiple antigen labeling) applications where antibodies from several different species are used. It is also highly recommended for use with near-infrared (NIR) Western blot detection methods.

## REFERENCES

- David, V., et al. 2009. Matrix extracellular phosphoglycoprotein (MEPE) is a new bone renal hormone and vascularization modulator. *Endocrinol.* 150: 4012-4023.
- Cheng, G., et al. 2010. Basis for MAP4 dephosphorylation-related microtubule network densification in pressure overload cardiac hypertrophy. *J. Biol. Chem.* 285: 38125-38140.
- Chinnakkannu, P., et al. 2010. Site-specific microtubule-associated Protein 4 dephosphorylation causes microtubule network densification in pressure overload cardiac hypertrophy. *J. Biol. Chem.* 285: 21837-21848.
- Keeley, R.J., et al. 2010. Effect of juvenile pretraining on adolescent structural hippocampal attributes as a substrate for enhanced spatial performance. *Learn. Mem* 17: 344-354.
- Xiao, C., et al. 2010. SIRT6 deficiency results in severe hypoglycemia by enhancing both basal and Insulin-stimulated glucose uptake in mice. *J. Biol. Chem.* 285: 36776-36784.
- Lu, S.J., et al. 2011. Platelets generated from human embryonic stem cells are functional *in vitro* and in the microcirculation of living mice. *Cell Res.* 21: 530-545.
- Pretheeban, T., et al. 2011. Comparison of expression levels of candidate genes in endometrium of dairy heifers and lactating dairy cows. *Can. J. Anim. Sci.* 91: 255-264.
- Li, H., et al. 2011. Compound deletion of Fgfr3 and Fgfr4 partially rescues the Hyp mouse phenotype. *Am. J. Physiol. Endocrinol. Metab.* 300: E508-E517.

## PRODUCT

UltraCruz<sup>®</sup> Blocking Reagent is provided as 100 ml ready-to-use solution for blocking and dilution of antibodies. This reagent is a proprietary buffer that is an animal-free alternative to sera, BSA, casein or non-fat dry milk.

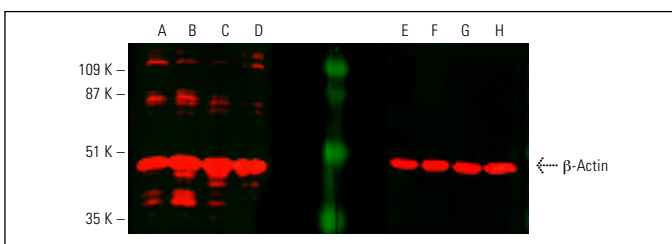
## SOURCE

UltraCruz<sup>®</sup> Blocking Reagent is a plant protein-derived blocking reagent and diluent.

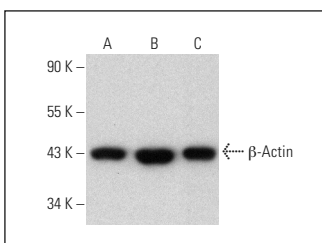
## APPLICATIONS

UltraCruz<sup>®</sup> Blocking Reagent is recommended for use in Western Blotting, immunofluorescence and immunohistochemistry (including paraffin-embedded sections). Final volume to be determined by researcher.

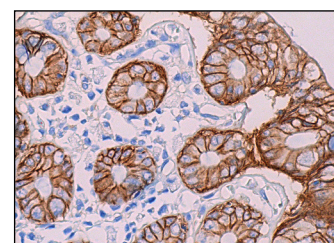
## DATA



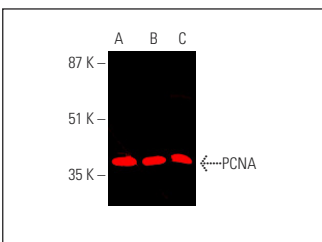
$\beta$ -Actin (C4): sc-47778. Near-infrared western blot analysis of HeLa (A,E), Jurkat (B,F), NIH/3T3 (C,G) and KNRK (D,H) whole cell lysates. Blocking reagent used: TBS Blotto A: sc-2333 (A-D) and UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 (E-H). Note superior blocking using UltraCruz<sup>®</sup> Blocking Reagent.



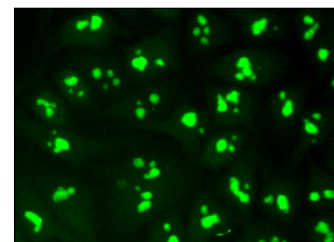
$\beta$ -Actin (C4): sc-47778. Western blot analysis of  $\beta$ -Actin expression in HeLa (A), NIH/3T3 (B) and KNRK (C) whole cell lysates. Blocking reagent used: UltraCruz<sup>®</sup> Blocking Reagent: sc-516214.



$\beta$ -catenin (E-5): sc-7963. Immunoperoxidase staining of formalin fixed, paraffin-embedded human rectum tissue showing membrane and cytoplasmic staining of glandular cells. Blocking reagent used: UltraCruz<sup>®</sup> Blocking Reagent: sc-516214.



PCNA (PC10): sc-56. Near-infrared western blot analysis of PCNA expression in HeLa (A), NIH/3T3 (B) and KNRK (C) whole cell lysates. Blocking reagent used: UltraCruz<sup>®</sup> Blocking Reagent: sc-516214.



BOP1 (E-1): sc-390672. Immunofluorescence detection of BOP1 in formalin-fixed HeLa cells showing nucleolar localization. Blocking reagent used: UltraCruz<sup>®</sup> Blocking Reagent: sc-516214.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only; not for use in diagnostic procedures.



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 18-Dec-2017

Version 1.1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name UltraCruz® Blocking Reagent  
Product Code SC-516214

### Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

### Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.  
10410 Finnell Street  
Dallas, TX 75220  
831.457.3800  
800.457.3801  
scbt@scbt.com

### Emergency telephone number

Chemtrec  
1.800.424.9300 (Within USA)  
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

Signal word Not classified  
Hazard statements Not classified  
Symbols/Pictograms Not classified

Precautionary Statements - Prevention Wash hands thoroughly after handling  
Precautionary Statements - Response IF exposed or concerned: Get medical advice/attention

### Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) Not applicable

### Other Information

Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity.

<b>NFPA</b>	Health hazards	-		<b>HMIS</b>	Health hazards	-
	Flammability	-			Flammability	-
	Stability	-			Physical hazards	-
	Physical and chemical properties	-			Personal protection	-

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight No information available  
Formula No information available

Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50
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UltraCruz® Blocking Reagent	-	>98	-	-	-
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## 4. FIRST AID MEASURES

### First Aid Measures

General advice	Consult a physician if necessary. Remove to fresh air.
Eye contact	Wash with plenty of water.
Skin Contact	Wash skin with soap and water.
Inhalation	Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.

### Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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### Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	None.

### Specific hazards arising from the chemical

Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.

### Explosion data

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

### Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.
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### Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at 4 °C.  
 Incompatible materials None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

Exposure Guidelines .

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Appropriate engineering controls**

Engineering Controls Showers  
 Eyewash stations  
 Ventilation systems

**Individual protection measures, such as personal protective equipment**

Eye/face protection Wear safety glasses with side shields (or goggles).  
 Skin and Body Protection Wear protective gloves and protective clothing.  
 Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.  
 General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State liquid  
 Appearance No information available  
 Odor No information available

**Property****Values**

pH No information available  
 Melting point/freezing point No information available  
 Boiling point No information available  
 Flash point No information available  
 Density No information available  
 Evaporation rate No information available  
 Upper flammability limits No information available  
 Lower flammability limit No information available  
 Vapor pressure No information available  
 Vapor density No information available  
 Specific gravity No information available  
 Water solubility No information available  
 Solubility in other solvents No information available  
 Partition coefficient No information available  
 Autoignition temperature No information available  
 Decomposition temperature No information available  
 Kinematic viscosity No information available  
 Explosive properties No information available

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Oxidizing properties	No information available
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## 10. STABILITY AND REACTIVITY

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Reactivity	Not applicable
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	No information available.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

### Information on toxicological effects

Symptoms	No information available.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	No information available.
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### Numerical measures of toxicity - Product Information

Unknown acute toxicity	100% of the mixture consists of ingredient(s) of unknown toxicity
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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity	May cause long lasting harmful effects to aquatic life
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100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

## 13. DISPOSAL CONSIDERATIONS

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Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	P105
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

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## 14. TRANSPORT INFORMATION

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<b>DOT</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>IATA</b>	Not regulated

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## 15. REGULATORY INFORMATION

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### International Inventories

All of the components in the product are on the following Inventory lists

No information available

#### *X - Listed*

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

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## 16. OTHER INFORMATION

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Revision note	No information available
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**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**