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

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for FEMTOMAX-110

Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate

Overview

Description:	Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system) - FEMTOMAX-110
Item No.:	FEMTOMAX-110
Size:	110 mL
Applications:	WB, ELISA

Product Details

Background:	FemtoMax™ Super Sensitive Chemiluminescent HRP Substrate is an extremely sensitive, nonradioactive, enhanced luminol-based chemiluminescent substrate for the detection of horseradish peroxidase (HRP). FemtoMax™ is designed for both Western blotting and enzyme-linked immunosorbent assay (ELISA) use. FemtoMax™ easily allows for the detection of femtogram (10-15) amounts of antigen using photographic film or other imaging methods, including highly sensitive CCD cameras. Blots can be repeatedly exposed to X-ray film to obtain optimal results or stripped of detection reagents and re-probed. Use the same blotting conditions for FemtoMax™ as you would when using Amersham ECL Plus™ Substrate or Pierce SuperSignal® West Femto Substrate.
Synonyms:	Peroxidase Substrate, ECL HRP Substrate, Chemiluminescent Femtomax™ Super Sensitive horseradish peroxidase (HRP) Substrate For Microwell And/Or Membrane (2 Component System)

Target Details

Relevant Links:

- FemtoMax SDS

Application Details

Tested Applications:	WB
Suggested Applications:	ELISA (Based on references)

Application Note:	Prepare FemtoMax™ Super Sensitive Chemiluminescent HRP Substrate for use in microwell or membrane applications by mixing 1 mL of Luminol Reagent (Reagent A) with 1 mL of Reaction Buffer (Reagent B). Mix well. Protect from light. Larger or smaller volumes of the substrate can be prepared by mixing components at the same 1:1 ratio. FemtoMax™ Super Sensitive Chemiluminescent HRP Substrate is a highly sensitive detection reagent. Always carefully optimize all components of individual assays (antigens, antibodies, conjugates…) to minimize background reactivity associated with non-specific binding.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1X
WB:	1X
Other:	Expiration Date: 26 OCT 2020

Formulation

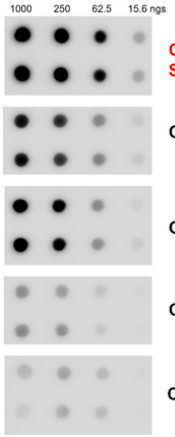
Physical State:	Liquid - clear, colorless, odorless
Concentration:	1X

Shipping & Handling

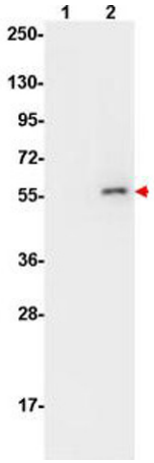
Shipping Condition:	Wet Ice
Storage Condition:	Store Chemiluminescent Substrate at 4° C prior to opening. Protect from moisture and light. No special shipping conditions or precautions are required.

Images

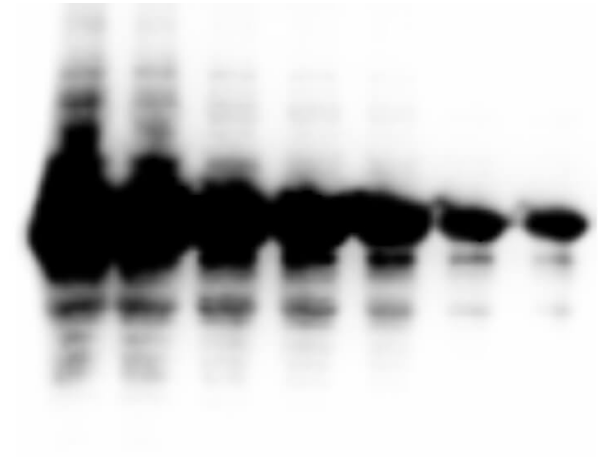
Bottle
Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system)



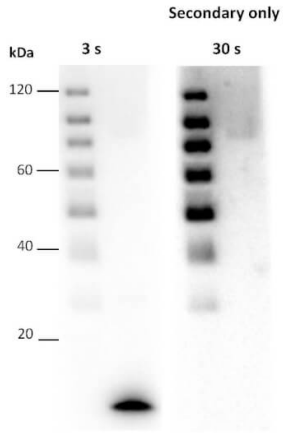
Dot Blot
Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate and competitor comparison.
GAPDH protein was dotted on a nitrocellulose membrane, load 1000, 250, 62.5, 15.6ngs. The membrane was blocked for one hour at room temperature. Primary antibody: Rb anti-GAPDH diluted 1:2000 and incubated at 4°C overnight. After washing, secondary antibody: Gt anti-Rb IgG-HRP diluted 1:50,000 at room temperature for 2 hours. Detection: Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate or competitor 1-4.



Western Blot
Western Blot of Mouse Anti-AKT pS473 antibody using Femtomax.
Lane 1: non-phosphorylated AKT in untreated cells.
Lane 2: phosphorylated AKT (indicated by arrowhead at ~56 kDa) on PDGF stimulated NIH/3T3 cell lysates.
Load: 10 µg per lane.
Primary antibody: AKT pS473 antibody at 1:10,000 in TBS with 0.05% Tween-20 with 1% BSA, for 1 h at 4° C.
Secondary antibody: HRP conjugated Gt-a-Mouse IgG (p/n 610-103-121) was used at a 1:20,000 dilution for 1 h at 4° C with Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate (p/n FEMTOMAX-100).



Western Blot
Western Blot of anti-GST tag antibody. Lane 1: Recombinant GST tagged recombinant protein [5 ug]. Lane 2: Recombinant GST tagged recombinant protein [2 ug]. Lane 3: Recombinant GST tagged recombinant protein [1 ug]. Lane 4: Recombinant GST tagged recombinant protein [500 ng]. Lane 5: Recombinant GST tagged recombinant protein [250 ng]. Lane 6: Recombinant GST tagged recombinant protein [100 ng]. Lane 7: Recombinant GST tagged recombinant protein [50 ng]. Primary antibody: Anti-GST Antibody at 1:1000 for overnight at 4°C. Secondary antibody: donkey secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 78 kDa.



Western Blot
Western blot detection using Chemiluminescent FemtoMax™ HRP Substrate. rPARP1 domain detected at 11 kDa after 3 sec exposure using primary antibody rabbit anti-serum 1:500 overnight, at 4°C. Secondary antibody Peroxidase Goat Anti-Rabbit IgG Antibody at 1:40,000. All incubations were performed in Blocking Buffer for Fluorescent Western Blocking (p/n MB-070).

References

- Teske NC et al. Pericytes are protective in experimental pneumococcal meningitis through regulating leukocyte infiltration and blood-brain barrier function. *J Neuroinflammation.* (2023)
- Chithelen J et al. The Sphingolipid Inhibitors Ceranib-2 and SKI-II Reduce Measles Virus Replication in Primary Human Lymphocytes: Effects on mTORC1 Downstream Signaling. *Front Physiol.* (2022)
- Pyun JM et al. Plasma Amyloid-β Oligomerization Tendency Predicts Amyloid PET Positivity. *Clinical Interventions in Aging* (2021)
- Kim MK et al. A novel GPR119 agonist DA-1241 preserves pancreatic function via the suppression of ER stress and increased PDX1 expression. *Biomed Pharmacother.* (2021)
- Bakri FG et al. Second Report of Chronic Granulomatous Disease in Jordan: Clinical and Genetic Description of 31 Patients From 21 Different Families, Including Families From Lybia and Iraq. *Front Immunol.* (2021)
- Mollin M et al. Clinical, functional and genetic characterization of 16 patients suffering from chronic granulomatous disease variants – identification of 11 novel mutations in CYBB. *Clin Exp Immunol.* (2021)
- Durbano HW et al. Aberrant BMP2 Signaling in Patients Diagnosed with Osteoporosis. *Int J Mol Sci.* (2020)
- Lee JJ et al. Association of Plasma Oligomerized Beta Amyloid with Neurocognitive Battery Using Korean Version of Consortium to Establish a Registry for Alzheimer's Disease in Health Screening Population. *Diagnostics (Basel, Switzerland)* (2020)
- Youn YC. et al. Blood Amyloid-β Oligomerization as a Biomarker of Alzheimer's Disease: A Blinded Validation Study. *J Alzheimers Dis.* (2020)
- Brault J. et al. NOX4 is the main NADPH oxidase involved in the early stages of hematopoietic differentiation from human induced pluripotent stem cells. *Free Radic Biol Med.* (2020)
- Zhang L et al. Functional analysis of miR-767-5p during the progression of hepatocellular carcinoma and the clinical relevance of its dysregulation. *Histochem Cell Biol.* (2020)

- Nguyen J et al. A Synthetic Peptide, CK2. 3, Inhibits RANKL-Induced Osteoclastogenesis through BMPRIa and ERK Signaling Pathway. *J Dev Biol.* (2020)
- Grafen A et al. Use of acid ceramidase and sphingosine kinase inhibitors as antiviral compounds against measles virus infection of lymphocytes in vitro. *Front Cell Dev Biol* (2019)
- John V et al. Caveolin-1 controls vesicular TLR2 expression, p38 signaling and T cell suppression in BCG infected murine monocytic myeloid-derived suppressor cells. *Front Immunol.* (2019)
- Kim TH et al. Additive effects of evogliptin in combination with pioglitazone on fasting glucose control through direct and indirect hepatic effects in diabetic mice. *Eur J Pharmacol.* (2018)
- Tiwarekar V et al. APOBEC3G-regulated host factors interfere with measles virus replication: role of REDD1 and mammalian TORC1 inhibition. *J Virol.* (2018)
- Dietrich K et al. Health-Relevant Phenotypes in the Offspring of Mice Given CAR Activators Prior to Pregnancy. *Drug Metab Dispos.* (2018)
- Chung et al. Niche-mediated BMP/SMAD signaling regulates lung alveolar stem cell proliferation and differentiation. *Development* (2018)
- An SSA et al. Dynamic changes of oligomeric amyloid β levels in plasma induced by spiked synthetic Aβ42. *Alzheimer's Research & Therapy* (2017)
- Wang MJ et al. Oligomeric forms of amyloid-β protein in plasma as a potential blood-based biomarker for Alzheimer's disease. *Alzheimer's Research & Therapy* (2017)
- Barfeld SJ et al. c-Myc antagonises the transcriptional activity of the androgen receptor in prostate cancer affecting key gene networks. *EBioMedicine.* (2017)
- Tadokoro T et al. BMP signaling and cellular dynamics during regeneration of airway epithelium from basal progenitors. *Development.* (2016)
- Carter LG et al. Exercise improves glucose disposal and insulin signaling in pregnant mice fed a high fat diet. *J Diabetes Metab.* (2015)
- Wache C et al. Myeloid-related protein 14 promotes inflammation and injury in meningitis. *J Infect Dis.* (2015)
- Beaumel S et al. Identification of NOX2 regions for normal biosynthesis of cytochrome b558 in phagocytes highlighting essential residues for p22phox binding. *Biochem J.* (2014)
- Hohne C et al. High mobility group box 1 prolongs inflammation and worsens disease in pneumococcal meningitis. *Brain.* (2013)
- Huang BW et al. Transcriptional regulation of the human ferritin gene by coordinated regulation of Nrf2 and protein arginine methyltransferases PRMT1 and PRMT4. *FASEB J.* (2013)
- Kim MK et al. Differential protective effects of exenatide, an agonist of GLP-1 receptor and Piragliatin, a glucokinase activator in beta cell response to streptozotocin-induced and endoplasmic reticulum stresses. *PLoS One.* (2013)
- Hoegen T et al. The NLRP3 inflammasome contributes to brain injury in pneumococcal meningitis and is activated through ATP-dependent lysosomal cathepsin B release. *J Immunol.* (2011)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.