



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

Anti-HO-1 Antibody

Rabbit Anti-Rat HO-1 Polyclonal
Catalog No. SPC-211



Discovery through partnership | Excellence through quality

Overview

Product Name

HO-1 Antibody

Description

Rabbit Anti-Rat HO-1 Polyclonal

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, IP

Antibody Dilution

WB (1:400), IHC (1:1000), IP (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Rat

Immunogen

Rat native full-length HO-1 purified from liver tissue

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein A purified

Clonality

Polyclonal

Specificity

Detects ~33kDa.

Cite This Product

Rabbit Anti-Rat HO-1 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-211)

Certificate Of Analysis

5 µg/ml of SPC-211 was sufficient for detection of HO-1 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Heme oxygenase 1 Antibody, HSP32 Antibody, Hemox Antibody, 32 kD Antibody, bK286B10 Antibody, D8Wsu38e Antibody, heat shock protein 32kD Antibody, Heat shock protein Antibody, Heme oxygenase (decycling) 1 Antibody, HMOX 1 Antibody, Hmox Antibody, HMOX1 Antibody, HO 1 Antibody, HO Antibody, HO1 antibody

Research Areas

Cancer, Oxidative Stress

Cellular Localization

Endoplasmic Reticulum, Microsome

Accession Number

NP_036712.1

Gene ID

24451

Swiss Prot

P06762

Scientific Background

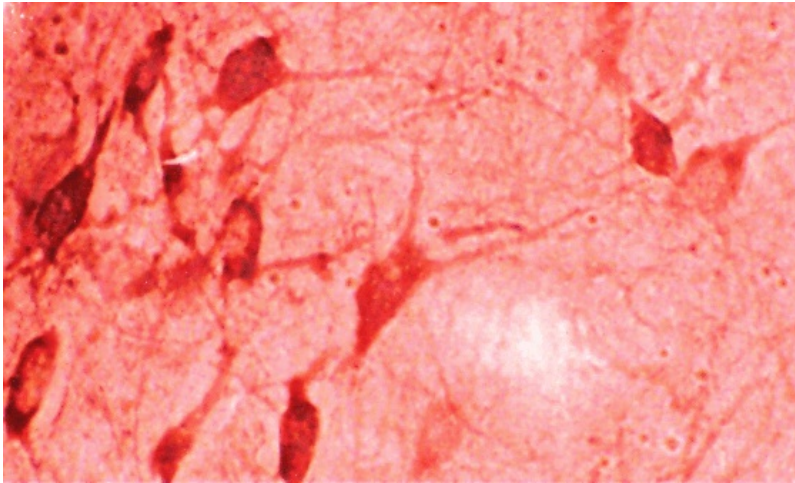
Heme-oxygenase is a ubiquitous enzyme that catalyzes the initial and rate-limiting steps in heme catabolism yielding equimolar amounts of biliverdin, iron and carbon monoxide. Biliverdin is subsequently converted to bilirubin and the free iron is sequestered to ferritin (1). These products have important physiological effects as carbon monoxide is a potent vasodilator; biliverdin and bilirubin are potent antioxidants; and the free iron increases oxidative stress and regulates the expression of many mRNAs (2). There are three isoforms of heme-oxygenase, HO-1, HO-2 and HO-3; however HO-1 and HO-2 are the major isoforms as they both have been identified in mammals (3). HO-1, also known as heat shock protein 32, is an inducible isoform activated by most oxidative stress inducers, cytokines, inflammatory agents and heat shock. HO-2 is a constitutive isoform which is expressed under homeostatic conditions. HO-1 is also considered to be a cytoprotective factor in that free heme is highly reactive and cytotoxic, and secondly, carbon monoxide is a mediator inhibiting the inflammatory process and bilirubin is a scavenger for reactive oxygen, both of which are the end products of heme catalyzation (4). It has also been shown that HO-1 deficiency may cause reduced stress defense, a pro-inflammatory tendency (5), susceptibility to atherosclerotic lesion formation (6), endothelial cell injury, and growth retardation (7). Up-regulation of HO-1 is therefore said to be one of the major defense mechanisms of oxidative stress (4).

References

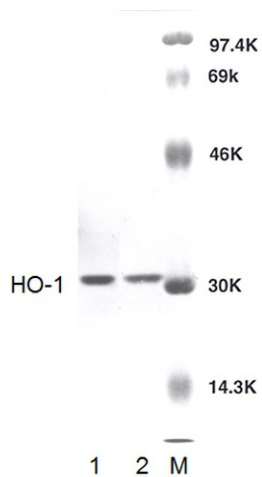
1. Froh M. et al. (2007) World J. Gastroenterol 13(25): 3478-86.

2. Elbirt K.K. and Bonkovsky H.L. (1999) Proc Assoc Am Physicians 111(5): 348-47.
3. Maines M.D., Trakshel G.M., and Kutty R.K. (1986) J Biol Chem 261: 411-419.
4. Brydun A., et al. (2007) Hypertens Res 30(4): 341-8.
5. Poss K.D. and Tonegawa S. (1997). Proc Natl Acad Sci U S A. 94: 10925-10930.
6. Yet S.F., et al. (2003) FASEB J. 17: 1759-1761.
7. Yachie A., et al. (1999) J Clin Invest. 103: 129-135.

Product Images



Immunohistochemistry analysis using Rabbit Anti-HO-1 Polyclonal Antibody (SPC-211). Tissue: Brain. Species: Rat. Primary Antibody: Rabbit Anti-HO-1 Polyclonal Antibody (SPC-211) at 1:1000.



Western blot analysis of Rat Brain cell lysates showing detection of HO-1 protein using Rabbit Anti-HO-1 Polyclonal Antibody (SPC-211). Lane 1: Rat Brain lysate. Lane 2: Purified HO-1. Lane 3: Molecular Weight Markers. Load: 10 µg. Primary Antibody: Rabbit Anti-HO-1 Polyclonal Antibody (SPC-211) at 1:1000.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.