

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse HO-1 in Western blots. In Western blots, this antibody does not cross-react with rhHO-2.
Source	Monoclonal Rat IgG _{2B} Clone # 412811
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HO-1/HMOX1 Met1-Thr261 Accession # P09601
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Heme Oxygenase 1 (HO-1), also known as HMOX1 and Heat Shock Protein 32 (HSP32), is a 32 kDa microsomal enzyme required for the metabolism of heme to biliverdin. Heme Oxygenase occurs as 2 isozymes, an inducible Heme Oxygenase-1 (HO-1/HMOX1) and a constitutive Heme Oxygenase-2 (HO-2/HMOX2). HO-1 expression is induced by heme and other non-heme compounds. Human HO-1 shares 82% amino acid sequence identity with mouse HO-1.

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