

Human/Mouse HO-2/HMOX2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 322913 Catalog Number: MAB3170

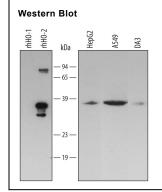
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human and mouse HO-2/HMOX2 in Western blots. Endogenous rat HO-2 is detectable but has a higher background. In Western be no cross-reactivity with recombinant human HO-1/HMOX1 is observed.		
Source	Monoclonal Mouse IgG _{2A} Clone # 322913		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human HO-2/HMOX2 Met1-Met316 Accession # P30519		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human and Mouse HO-2/HMOX2 by Western Blot.

Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, AS49 human lung carcinoma cell line, and DA3 mouse myeloma cell line. PVDF membrane was probed with 0.5 µg/mL Mouse Anti-Human/Mouse HO-2/HMOX2 Monoclonal Antibody (Catalog # MAB3170) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human HO-1 and HO-2 (5 ng/lane) were included. A specific band for HO-2/HMOX2 was detected at approximately 36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

Heme Oxygenase 2 (HO-2), also known as HMOX2, is a 36 kDa microsomal enzyme required for the metabolism of heme to biliverdin. Heme Oxygenase occurs as 2 isozymes, the constitutively expressed Heme Oxygenase-2(HO-2/HMOX2) and the inducible Heme Oxygenase-1 (HO-1/HMOX1). HO-1 expression is induced by heme and other non-heme compounds. Human HO-2 shares 42% amino acid sequence identity with human HO-1 and 89% amino acid sequence identity with mouse and rat HO-2.

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