

DESCRIPTION

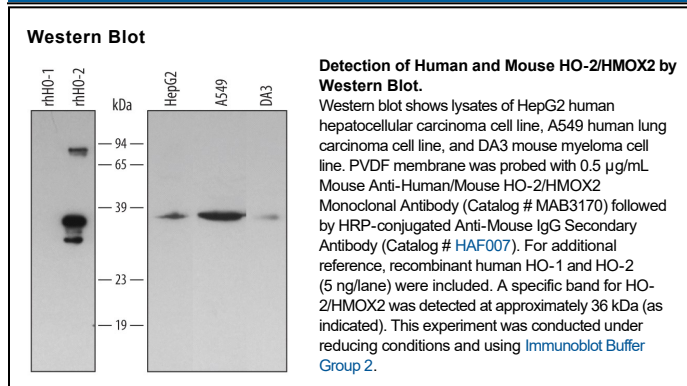
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse HO-2/HMOX2 in Western blots. Endogenous rat HO-2 is detectable but has a higher background. In Western blots, no cross-reactivity with recombinant human HO-1/HMOX1 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 322913
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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



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. <ul style="list-style-type: none"> ● 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.