

Mouse HO-1 Monoclonal Antibody | anti-HO-1 antibody

HO-1 monoclonal antibody (HO-1-2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77019	Mouse	Human, Mouse, Rat, Dog, Pig, Monkey, Guinea pig, Hamster, Rabbit	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

HO-1; Monoclonal Antibody; HO-1 monoclonal antibody (HO-1-2); HMOX1; Hsp32; Heat shock protein 32; Heme oxygenase 1; mAb (HO-1-2); anti-HO-1 antibody

PRODUCT SPECIFICATIONS

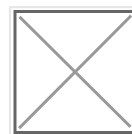
Host	Mouse
Reactivity	Human, Mouse, Rat, Dog, Pig, Monkey, Guinea pig, Hamster, Rabbit
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	HO-1-2
Specificity	Recognizes human, mouse, rat, dog, guinea pig, hamster, monkey, pig and rabbit HO-1. Detects a band of ~32kDa by Western blot.
Purity/Purification	Protein G affinity purified.
Form/Format	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Sequence Length	289
Applicable Applications for anti-HO-1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Native rat HO-1.
Preparation and Storage	Long Term: -20 degree C

IMAGES



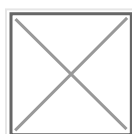
IHC (Immunohistochemistry)

Immunohistochemistry analysis of frozen mouse spinal cord with HO-1, mAb (HO-1-2).



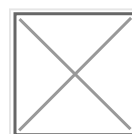
IHC (Immunohistochemistry)

Immunohistochemistry analysis of frozen human prostate section (stressed) stained using HO-1 (Hsp32) mAb (HO-1-2).



FCM/FACS (Flow Cytometry)

Flow cytometry analysis of human lung cancer A2 cells stained using isotype control antibody (left) and HO-1 (Hsp32) mAb (HO -1-2) (right).



WB (Western Blot)

Western blot analysis: Lane 1: MW Marker, Lane 2: HO-1 Recombinant Rat Protein, Lane 3: Rat Liver Microsomes.

ADDITIONAL INFORMATION

Related Product Information for anti-HO-1 antibody	Heme Oxygenase-1 (HO-1) also known as Hsp32, is the inducible isoform of heme oxygenase that catalyzes the NADPH, oxygen, and cytochrome P450 reductase dependent oxidation of heme to carbon monoxide, ferrous iron and biliverdin which is rapidly reduced to bilirubin. These products of the HO reaction have important physiological effects: carbon monoxide is a potent vasodilator and has been implicated to be a physiological regulator of cGMP and vascular tone; biliverdin and its product bilirubin are potent antioxidants; "free" iron increases oxidative stress and regulates the expression of many mRNAs (e.g., DCT-1, ferritin and transferrin receptor) by affecting the conformation of iron regulatory protein (IRP)-1 and its binding to iron regulatory elements (IRES) in the 5'- or 3'-UTRs of the mRNAs. To date, three identified heme oxygenase isoforms are part of the HO system that catalyze heme into biliverdin and carbon monoxide. These are inducible HO-1 or Hsp32, constitutive HO-2 that is abundant in the brain and testis, and HO-3 which is related to HO-2 but is the product of a different gene. The HO system is the rate-limiting step in heme degradation and HO activity decreases the levels of heme which is a well known potent catalyst of lipid peroxidation and oxygen radical formation.
Product Categories/Family for anti-HO-1 antibody	Protein Synthesis & Folding ; Oxidative Stress

NCBI AND UNIPROT INFORMATION

NCBI GI #	123448
NCBI GeneID	24451
UniProt Accession #	P06762 ; Q5BK87
Molecular Weight	33,006 Da
NCBI Official Full Name	Heme oxygenase 1
NCBI Official Synonym Full Names	heme oxygenase 1
NCBI Official Symbol	Hmox1
NCBI Official Synonym Symbols	Ho1; Heox; Hmox; Ho-1; HEOXG; hsp32
NCBI Protein Information	heme oxygenase 1
UniProt Protein Name	Heme oxygenase 1
UniProt Gene Name	Hmox1
UniProt Synonym Gene Names	HO-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ho-1-antibody-clone-ho-1-2-western-blot-immunohistochemistry-flow-cytometry-elisa/77019>