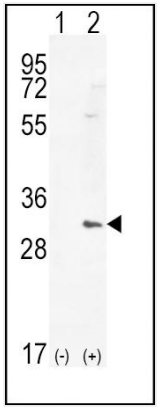
HMOX1 Antibody – Rabbit Polyclonal

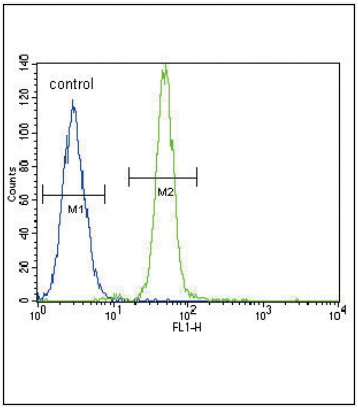
PRODUCT OVERVIEW

Product Name	HMOX1, Polyclonal Antibody
Full Product Name	HMOX1, ID (HMOX1, HO, HO1, Heme oxygenase 1) (Biotin)
Product Gene Name	anti-HMOX1 antibody
Product Synonym Names	HMOX1; HO; HO1; Heme oxygenase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HMOX1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	32,819 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (35777060..35790207). Location: 22q13.1
OMIM	141250
3D Structure	ModBase 3D Structure for P09601
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 177-204 in the C-terminal region of human HMOX1, UniProt Accession #NP_002124.1; P09601.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-HMOX1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-HMOX1 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-HMOX1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HMOX1 antibody	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.
Product References and Citations for anti-HMOX1 antibody	1. Wu, M.M., et al. Toxicol. Appl. Pharmacol. 248(3):226-233(2010). 2. Bolisetty, S., et al. J. Am. Soc. Nephrol. 21(10):1702-1712(2010). 3. Bao, W., et al. PLoS ONE 5 (8), E12371 (2010). 4. Wu, M.M., et al. J. Biomed. Sci. 17, 70 (2010). 5. Wang, X., et al. PLoS ONE 5 (8), E11934 (2010).

Other Notes	Small volumes of anti-HMOX1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HMOX1 purchase	MBS6307387 is an antibody targeting HMOX1. Also known as HMOX1, ID (HMOX1, HO, HO1, Heme oxygenase 1) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HMOX1 antibody
Western Blot analysis of HMOX1 (arrow) usingMBS642676. 293 cell lysates (2ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HMOX1 gene.



Flow Cytometry (FC/FACS) of anti-HMOX1 antibody
Flow cytometric analysis of A549 cells (right histogram) using MBS642676 compared to a negative control cell (left histogram). Goat-anti-rabbit (FITC) secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMOX1. It may not necessarily be applicable to this product.

NCBI GI #	4504437
NCBI GeneID	3162
NCBI Accession #	NP_002124.1
UniProt Primary Accession #	P09601
UniProt Related Accession #	P09601
GenBank Nucleotide #	NM_002133.2
NCBI Official Full Name	heme oxygenase 1
NCBI Official Synonym Full Names	heme oxygenase (decycling) 1
NCBI Official Symbol	HMOX1
NCBI Official Synonym Symbols	HO-1; HSP32; HMOX1D; bK286B10
UniProt Protein Name	Heme oxygenase 1
UniProt Gene Name	HMOX1
UniProt Synonym Gene Names	HO; HO1; HO-1
UniProt Entry Name	HMOX1_HUMAN
NCBI Protein Information	heme oxygenase 1; heat shock protein, 32-kD

UniProt Comments for HMOX1	HMOX1: Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed. Heme oxygenase 1 activity is highly inducible by its substrate heme and by various non-heme substances such as heavy metals, bromobenzene, endotoxin, oxidizing agents and UVA. Expressed at higher levels in renal cancer tissue than in normal tissue. Belongs to the heme oxygenase family. Protein type: EC 1.14.99.3; Cofactor and Vitamin Metabolism - porphyrin and chlorophyll; Oxidoreductase Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: extracellular space; endoplasmic reticulum membrane; membrane; perinuclear region of cytoplasm; endoplasmic reticulum; nucleolus; caveola; nucleus; cytosol Molecular Function: protein binding; signal transducer activity; protein homodimerization activity; enzyme binding; metal ion binding; phospholipase D activity; heme binding; heme oxygenase (decyclizing) activity Biological Process: cell death; response to nicotine; negative regulation of smooth muscle cell proliferation; cellular iron ion homeostasis; negative regulation of mast cell degranulation; positive regulation of smooth muscle cell proliferation; positive regulation of vasodilation; excretion; erythrocyte homeostasis; regulation of transcription factor activity; heme catabolic process; small GTPase mediated signal transduction; regulation of blood pressure; porphyrin metabolic process; negative regulation of mast cell cytokine production; angiogenesis; negative regulation of neuron apoptosis; regulation of transcription from RNA polymerase II promoter in response to oxidative stress; transmembrane transport; healing during inflammatory response; protein homooligomerization; positive regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of transcription factor activity; heme oxidation; cellular response to nutrient; regulation of angiogenesis; negative regulation of leukocyte migration; negative regulation of DNA binding; iron ion homeostasis; positive regulation of angiogenesis; positive regulation of chemokine biosynthetic process; DNA damage response, signal transduction resulting in induction of apoptosis; response to hydrogen peroxide; response to estrogen stimulus; endothelial cell proliferation; response to oxidative stress; smooth muscle hyperplasia Disease: Heme Oxygenase 1 Deficiency; Pulmonary Disease, Chronic Obstructive
Research Articles on HMOX1	**1.** The results implicate Nrf2-dependent Z-DNA formation in HO-1 transcriptional activation.
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