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HMOX1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HMOX1.
Catalog # AT2389a

Product Information

Application	WB, E
Primary Accession	P09601
Other Accession	NM_002133
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5C6
Calculated MW	32819

Additional Information

Gene ID	3162
Other Names	Heme oxygenase 1, HO-1, HMOX1, HO, HO1
Target/Specificity	HMOX1 (ENSP00000216117, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HMOX1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

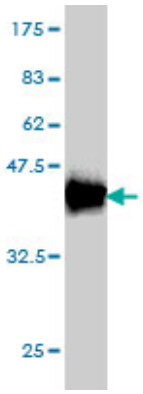
Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. 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.

References

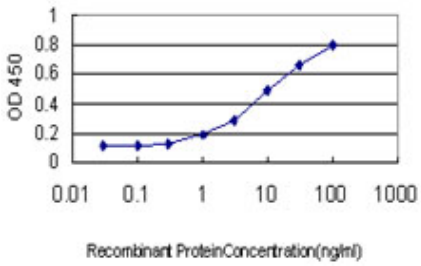
GT-repeat polymorphism in the heme oxygenase-1 gene promoter and the risk of carotid atherosclerosis related to arsenic exposure. Wu MM, et al. J Biomed Sci, 2010 Aug 26. PMID 20796278.GT-repeat

polymorphism in the heme oxygenase-1 gene promoter is associated with cardiovascular mortality risk in an arsenic-exposed population in northeastern Taiwan. Wu MM, et al. Toxicol Appl Pharmacol, 2010 Aug 12. PMID 20708634.Genetic variation and antioxidant response gene expression in the bronchial airway epithelium of smokers at risk for lung cancer. Wang X, et al. PLoS One, 2010 Aug 3. PMID 20689807.Association between heme oxygenase-1 gene promoter polymorphisms and type 2 diabetes mellitus: a HuGE review and meta-analysis. Bao W, et al. Am J Epidemiol, 2010 Sep 15. PMID 20682519.miR-122-induced down-regulation of HO-1 negatively affects miR-122-mediated suppression of HBV. Qiu L, et al. Biochem Biophys Res Commun, 2010 Aug 6. PMID 20633528.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Detection limit for recombinant GST tagged HMOX1 is approximately 0.3ng/ml as a capture antibody.