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HMOX2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HMOX2.
Catalog # AT2390a

Product Information

Application	WB, IF, E
Primary Accession	P30519
Other Accession	BC002396
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1D8-1A8
Calculated MW	36033

Additional Information

Gene ID	3163
Other Names	Heme oxygenase 2, HO-2, HMOX2, HO2
Target/Specificity	HMOX2 (AAH02396, 1 a.a. ~ 316 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	HMOX2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

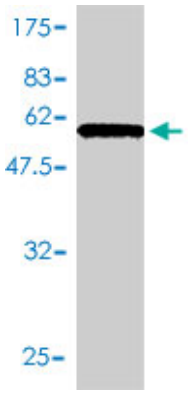
Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. 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. Alternative splice variants encoding the same protein have been identified at this locus.

References

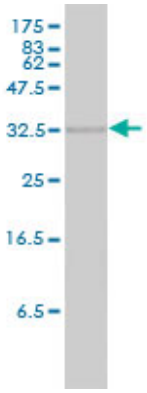
Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a

candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Enhanced translation of heme oxygenase-2 preserves human endothelial cell viability during hypoxia. He JZ, et al. J Biol Chem, 2010 Mar 26. PMID 20118244.Association of an intronic variant of the heme oxygenase-1 gene with hypertension in northern Chinese Han population. Yun L, et al. Clin Exp Hypertens, 2009 Oct. PMID 19886851.A role for Bach1 and HO-2 in suppression of basal and UVA-induced HO-1 expression in human keratinocytes. Zhong JL, et al. Free Radic Biol Med, 2010 Jan 15. PMID 19874887.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.

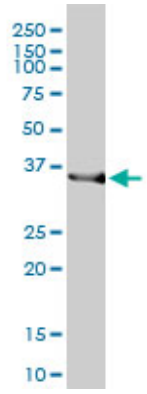
Images



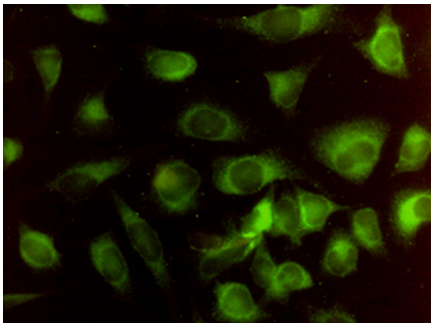
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (60.5 KDa) .



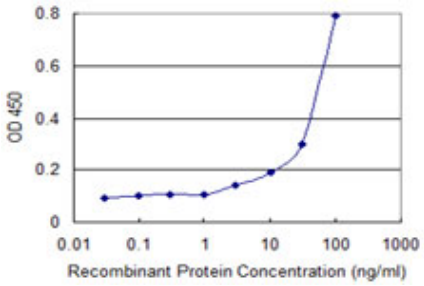
HMOX2 monoclonal antibody (M01), clone 1D8-1A8. Western Blot analysis of HMOX2 expression in human spleen.



HMOX2 monoclonal antibody (M01), clone 1D8-1A8 Western Blot analysis of HMOX2 expression in HepG2 ((Cat # AT2390a)



Immunofluorescence of monoclonal antibody to HMOX2 on HeLa cell. [antibody concentration1 ~ 10 ug/ml]



Detection limit for recombinant GST tagged HMOX2 is 1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.