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HMOX1 Antibody (monoclonal) (M01)

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

Specification

HMOX1 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P09601
Other Accession	NM_002133
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**32819**

HMOX1 Antibody (monoclonal) (M01) - 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.

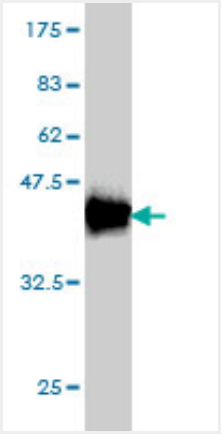
HMOX1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

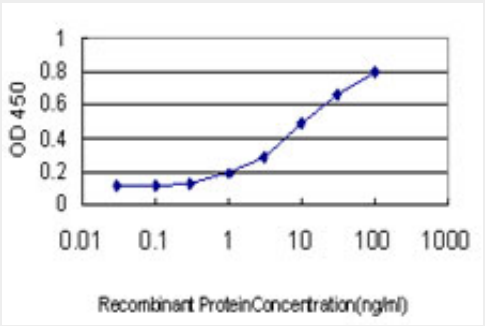
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HMOX1 Antibody (monoclonal) (M01) - 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.

HMOX1 Antibody (monoclonal) (M01) - 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.

HMOX1 Antibody (monoclonal) (M01) - 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.