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ATOX1 Antibody (monoclonal) (M08)

Mouse monoclonal antibody raised against a partial recombinant ATOX1.
Catalog # AT1229a

Specification

ATOX1 Antibody (monoclonal) (M08) - Product Information

Application	**WB, E**
Primary Accession	O00244
Other Accession	NM_004045
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**7402**

ATOX1 Antibody (monoclonal) (M08) - Additional Information

Gene ID 475

Other Names
Copper transport protein ATOX1, Metal transport protein ATX1, ATOX1, HAH1

Target/Specificity
ATOX1 (NP_004036, 1 a.a. ~ 68 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
ATOX1 Antibody (monoclonal) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

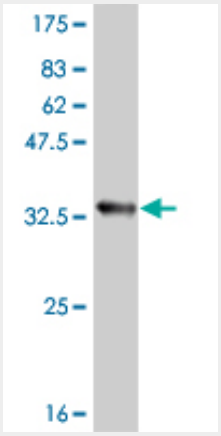
ATOX1 Antibody (monoclonal) (M08) - Protocols

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

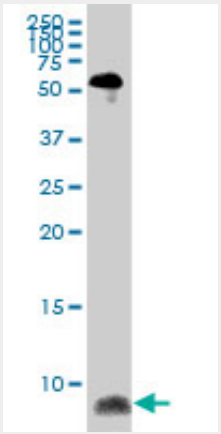
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

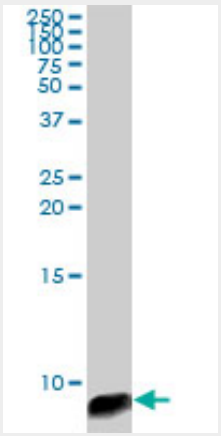
ATOX1 Antibody (monoclonal) (M08) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.22 KDa) .



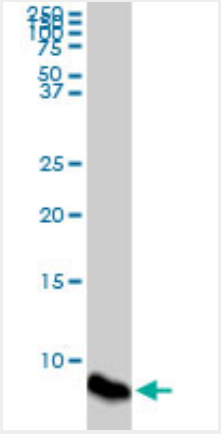
ATOX1 monoclonal antibody (M08), clone 4D6. Western Blot analysis of ATOX1 expression in human spleen.



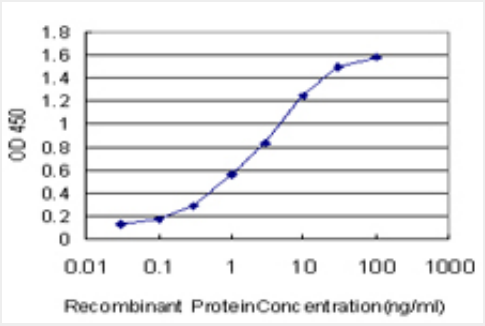
ATOX1 monoclonal antibody (M08), clone 4D6. Western Blot analysis of ATOX1 expression in

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HepG2 ((Cat # AT1229a)



ATOX1 monoclonal antibody (M08), clone 4D6. Western Blot analysis of ATOX1 expression in COLO 320 HSR ((Cat # AT1229a)



Detection limit for recombinant GST tagged ATOX1 is approximately 0.03ng/ml as a capture antibody.

ATOX1 Antibody (monoclonal) (M08) - Background

This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and transporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydrogen peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cytogenetic location, this gene represents a candidate gene for 5q-syndrome.

ATOX1 Antibody (monoclonal) (M08) - References

Copper(I)-mediated protein-protein interactions result from suboptimal interaction surfaces. Banci L, et al. Biochem J, 2009 Jul 29. PMID 19453293.Differential roles of Met10, Thr11, and Lys60 in structural dynamics of human copper chaperone Atox1. Rodriguez-Granillo A, et al. Biochemistry, 2009 Feb 10. PMID 19146392.Conserved residues modulate copper release in human copper chaperone Atox1. Hussain F, et al. Proc Natl Acad Sci U S A, 2008 Aug 12. PMID 18685091.Metal binding domains 3 and 4 of the Wilson disease protein: solution structure and interaction with the copper(I) chaperone HAH1. Banci L, et al. Biochemistry, 2008 Jul 15. PMID 18558714.Analysis of the human Atox 1 homologue in Wilson patients. Simon I, et al. World J Gastroenterol, 2008 Apr 21. PMID 18416466.