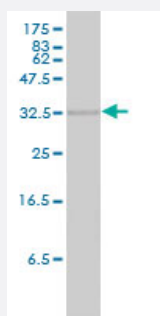


HMOX2 monoclonal antibody (M01), clone 1D8-1A8

Catalog # H00003163-M01

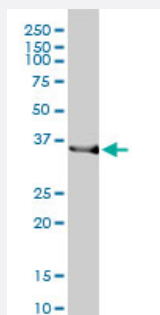
Size 100 ug

Applications



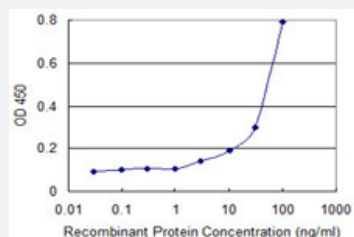
Western Blot (Tissue lysate)

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



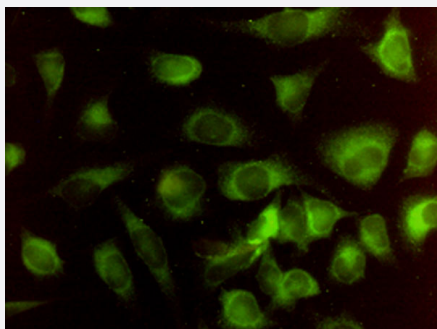
Western Blot (Cell lysate)

HMOX2 monoclonal antibody (M01), clone 1D8-1A8 Western Blot analysis of HMOX2 expression in HepG2 (Cat # L019V1).



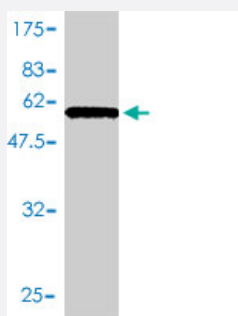
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

Immunofluorescence of monoclonal antibody to HMOX2 on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]



Western Blot detection against Immunogen (60.5 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant HMOX2.
Immunogen	HMOX2 (AAH02396, 1 a.a. ~ 316 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSAEVETSEGVDESEKKNNGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIK KELFKLATTALYFTYSALEEEEMERNKDHPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQC PKAAQKYVERIHIGQNEPELLVAHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENV DNAQQFKQLYRARMNALDLNMKTKERVEEANKAFEYNMQIFNELDQAGSTLARETLEDGFPVHD GKGDMRKCPFYAAEQDKGALEGSSCPFRTAMAVLRKPSLQFILAAGVALAAGLLAWYIM
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (90)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (60.5 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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

[Protocol Download](#)

- Western Blot (Cell lysate)

HMOX2 monoclonal antibody (M01), clone 1D8-1A8 Western Blot analysis of HMOX2 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — HMOX2

Entrez GeneID	3163
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GeneBank Accession#	BC002396
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Protein Accession#	AAH02396
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Gene Name	HMOX2
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Gene Alias	HO-2
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Gene Description	heme oxygenase (decycling) 2
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Omim ID	141251
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Gene Ontology	Hyperlink
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Gene Summary

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. [provided by RefSeq]

Other Designations

heme oxygenase (decyclizing) 2

Publication Reference

- [An enzyme that selectively S-nitrosylates proteins to regulate insulin signaling.](#)

Hua-Lin Zhou, Zachary W Grimmer, Nicholas M Venetos, Colin T Stomberski, Zhaoxia Qian, Precious J McLaughlin, Puneet K Bansal, Rongli Zhang, James D Reynolds, Richard T Premont, Jonathan S Stamler.

Cell 2023 Dec; 186(26):5812.

Application: WB, Human, HEK293T cells

- [Anti-apoptotic properties of carbon monoxide in porcine oocyte during in vitro aging.](#)

Němeček D, Dvořáková M, Heroutová I, Chmelíková E, Sedmíková M.

PeerJ 2017 Oct; 5:e3876.

Application: ICC, IF, Pig, Pig oocytes

Pathway

- [Porphyrin and chlorophyll metabolism](#)

Disease

- [Alzheimer disease](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)