

Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody
Catalog # ABO14222**Specification****Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IP, FC
Primary Accession	P09601
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse.

Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 3162

Other Names

Heme oxygenase 1, HO-1, 1.14.14.18, Heme oxygenase 1 soluble form, HMOX1, HO, HO1

Calculated MW

32819 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
IP 1:50
FC 1:50

Subcellular Localization

Microsome. Endoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side.

Tissue Specificity

Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Heme Oxygenase 1

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Protein Information

Name HMOX1

Synonyms HO, HO1

Function

[Heme oxygenase 1]: Catalyzes the oxidative cleavage of heme at the alpha-methene bridge carbon, released as carbon monoxide (CO), to generate biliverdin IXalpha, while releasing the central heme iron chelate as ferrous iron (PubMed:11121422, PubMed:19556236, PubMed:7703255). Affords protection against programmed cell death and this cytoprotective effect relies on its ability to catabolize free heme and prevent it from sensitizing cells to undergo apoptosis (PubMed:20055707).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type IV membrane protein; Cytoplasmic side

Tissue Location

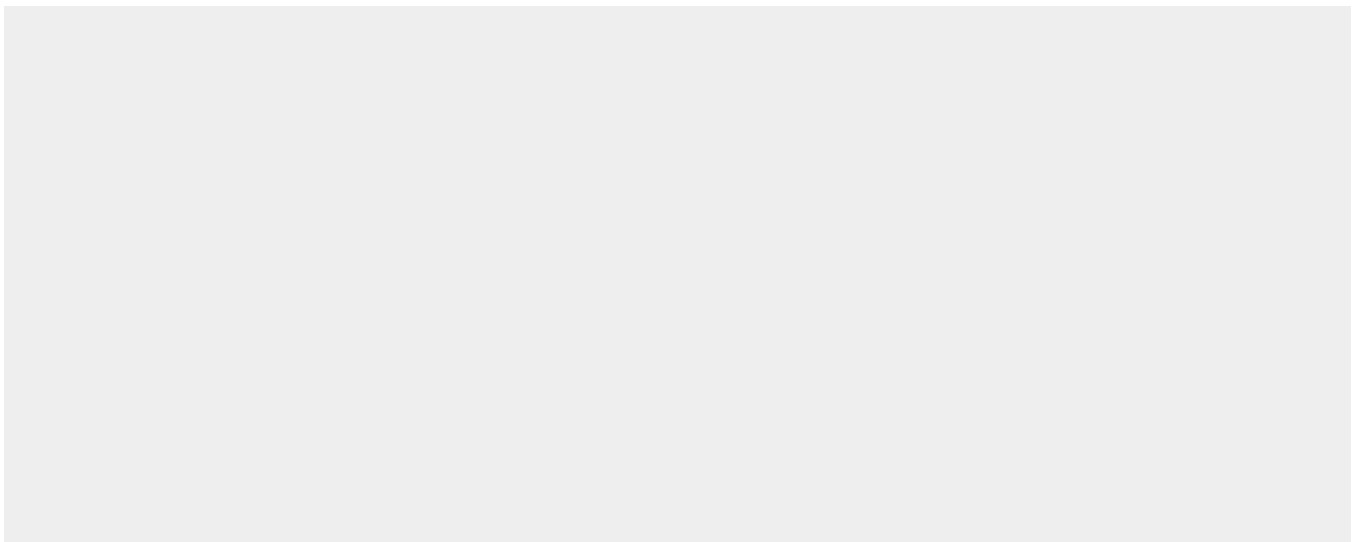
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

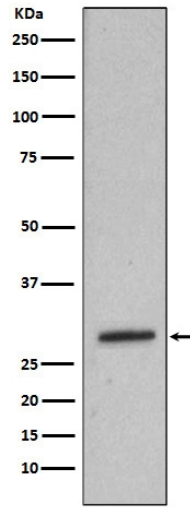
Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Protocols

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

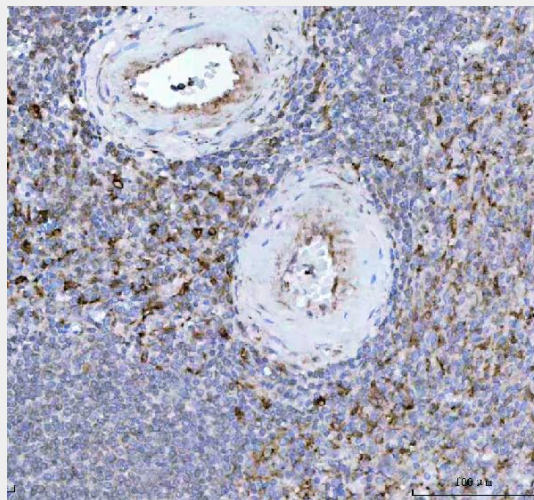
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Images



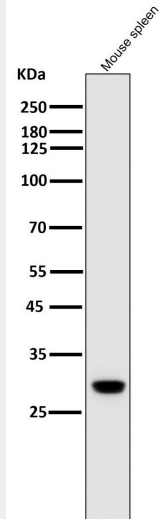


Western blot analysis of Heme Oxygenase 1 in mouse spleen lysate.

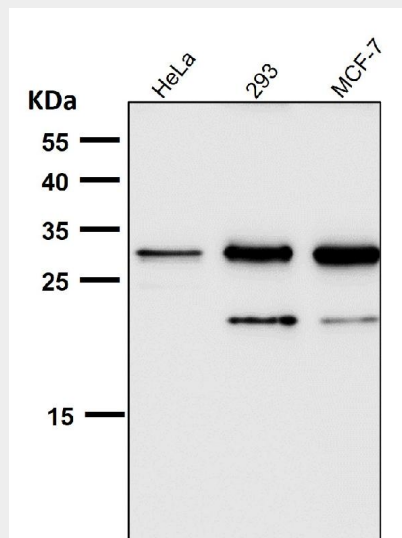


IHC analysis of Heme Oxygenase 1 using anti-Heme Oxygenase 1 antibody (M00253).

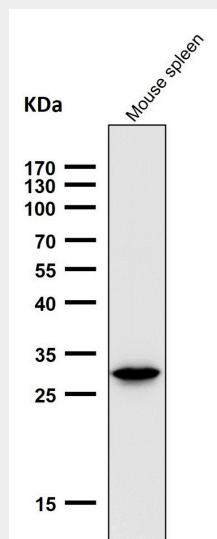
Heme Oxygenase 1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Heme Oxygenase 1 Antibody (M00253) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.