

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

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**Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IP, FC
Primary Accession	<a href="#">P09601</a>
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<br>IHC 1:50-1:200<br>IP 1:50<br>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:<a href="http://www.uniprot.org/citations/11121422" target="\_blank">11121422</a>, PubMed:<a href="http://www.uniprot.org/citations/19556236" target="\_blank">19556236</a>, PubMed:<a href="http://www.uniprot.org/citations/7703255" target="\_blank">7703255</a>). 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:<a href="http://www.uniprot.org/citations/20055707" target="\_blank">20055707</a>).

### Cellular Location

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

### Tissue Location

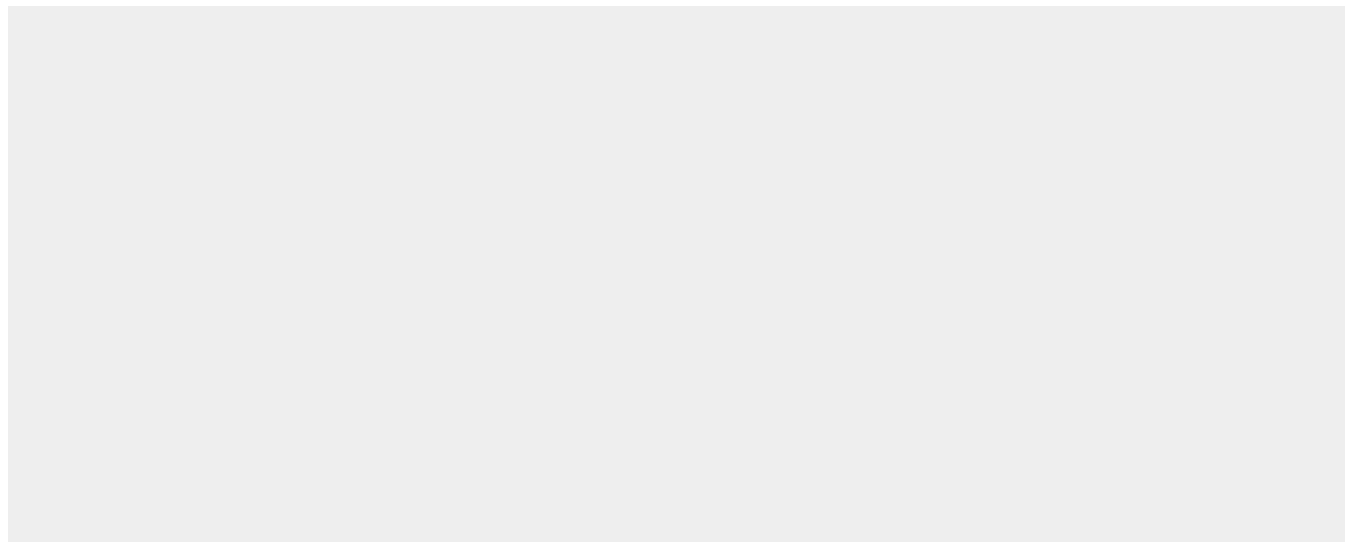
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

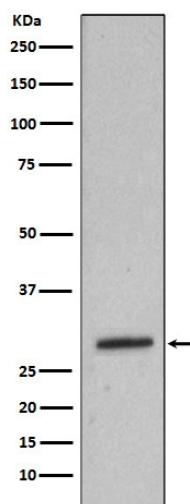
## Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Protocols

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

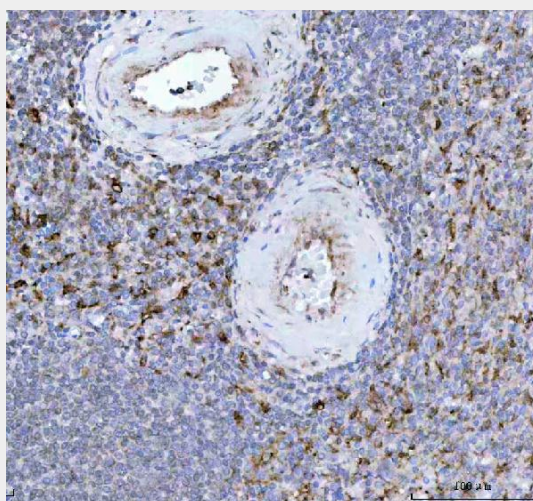
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody - Images



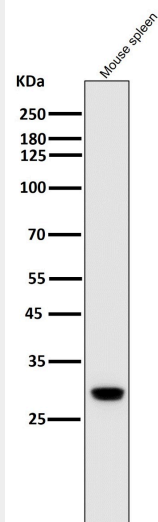


Western blot analysis of Heme Oxygenase 1 in mouse spleen lysate.

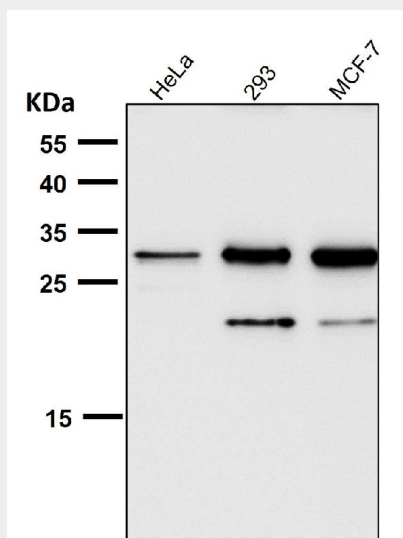


IHC analysis of Heme Oxygenase 1 using anti-Heme Oxygenase 1 antibody (M00253).

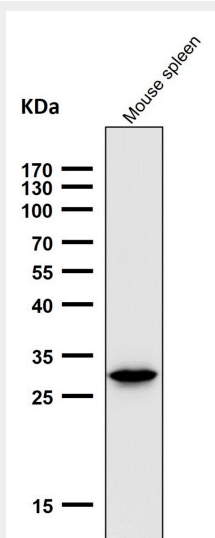
Heme Oxygenase 1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Heme 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.