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Heme Oxygenase 1 Antibody
Rabbit mAb
Catalog # AP90172

Specification

Heme Oxygenase 1 Antibody - Product Information

Application	**WB, IHC, FC, IP**
Primary Accession	P09601
Clonality	**Monoclonal**
Other Names	
HO-1; HSP32; HMOX1;	
Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**32819 Da**

Heme Oxygenase 1 Antibody - Additional Information

Dilution	**WB~~1:1000** **IHC~~1:100~500** **FC~~1:10~50** **IP~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Heme Oxygenase 1**
Description	**Hemeoxygenase (HO) is the rate-limiting enzyme in the catabolism of heme that results in the release of carbon monoxide, iron, and biliverdin. The products of this enzymatic reaction play important biological roles in antioxidant, anti-inflammatory and cytoprotective functions. Hemeoxygenase comprises two isozymes, including the constitutively expressed HO-2 isozyme and the inducible HO-1 isozyme.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

Heme Oxygenase 1 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

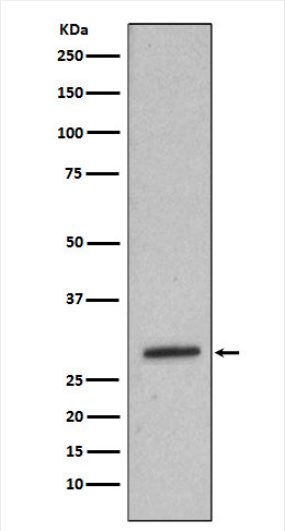
Tissue Location
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

Heme Oxygenase 1 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 Cytomety
- Cell Culture

Heme Oxygenase 1 Antibody - Images



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