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Heme Oxygenase 1 Antibody

Rabbit mAb
Catalog # AP90172

Product Information

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

Additional Information

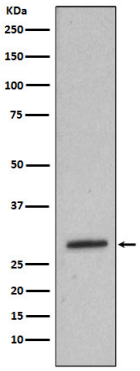
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Heme Oxygenase 1
Description	Hemeoxygenase (HO) is the rate-limiting enzyme in the catabolism of heme that results in the release of carbon monoxide, iron, and 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.

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)

Images



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

Image not found : 202311/AP90172-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human liver, using Heme Oxygenase 1 Antibody.