

**Heme Oxygenase 1 Rabbit pAb**  
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**Catalog # AP94240****Specification****Heme Oxygenase 1 Rabbit pAb - Product Information**

Application	IHC-P, IHC-F, IF
Primary Accession	<a href="#">P14901</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Heme Oxygenase 1
Epitope Specificity	201-289/289
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Microsome. Endoplasmic reticulum.
SIMILARITY	Belongs to the heme oxygenase family.
DISEASE	Defects in HMOX1 are the cause of heme oxygenase 1 deficiency (HMOX1D) [MIM:614034]. A disease characterized by impaired stress hematopoiesis, resulting in marked erythrocyte fragmentation and intravascular hemolysis, coagulation abnormalities, endothelial damage, and iron deposition in renal and hepatic tissues. Clinical features include persistent hemolytic anemia, asplenia, nephritis, generalized erythematous rash, growth retardation and hepatomegaly.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

The hemeoxygenase-1 calls that the hemoglobin oxidizes to synthesize the enzyme again-1( hemeoxygenase-1, HO-1) is the catalyst enzyme that a kind of hemoglobin declines the solution, under the NADPH and the cell dye P-450 revivification enzymes and the member oxygen functions, the catalyst HO-1 hemoglobin declines the solution as the courage green vegetable, CO and irons, the former revivification has the very strong anti- to oxidize the ability after become the red vegetable of courage , the latter is a kind of important letter to make the member.

**Heme Oxygenase 1 Rabbit pAb - Additional Information**

**Gene ID** 15368

**Other Names**

Heme oxygenase 1, HO-1, 1.14.14.18, Hmox1

**Target/Specificity**

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

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Heme Oxygenase 1 Rabbit pAb - Protein Information**

**Name** Hmox1

**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 (By similarity) 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 (By similarity).

**Cellular Location**

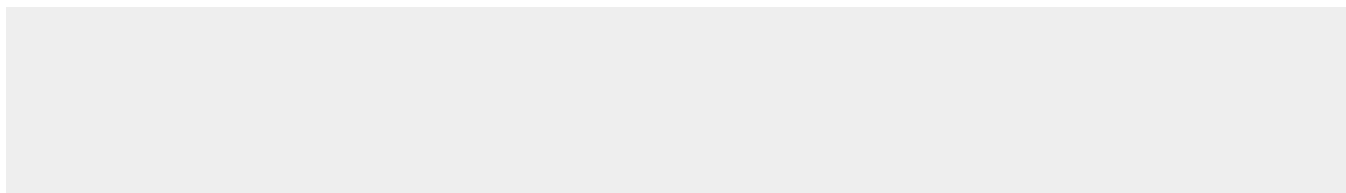
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P09601}; Single-pass type IV membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P09601}

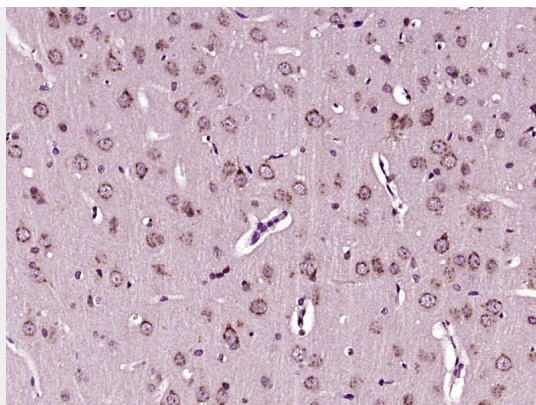
**Heme Oxygenase 1 Rabbit pAb - Protocols**

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](#)

**Heme Oxygenase 1 Rabbit pAb - Images**





Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Heme Oxygenase 1) Polyclonal Antibody, Unconjugated (AP94240) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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