

Heme Oxygenase-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10286**Specification**

Heme Oxygenase-1 Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	P09601
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32819

Heme Oxygenase-1 Antibody - Additional Information**Gene ID** 3162

Application & Usage	Western blotting (0.5-2 µg/ml), immunoprecipitation (10-20 µg/ml), and Immunohistochemistry (10-20 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~32-35 kDa Heme-Oxygenase-1. Jurkat cell lysate can be used as a positive control.
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Other Names

HMOX1 , HO , HO-1 , HO1 , OTTHUMP00000028925 , bK286B10 , EC 1.14.99.3

Target/Specificity

Heme Oxygenase-1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Heme Oxygenase-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

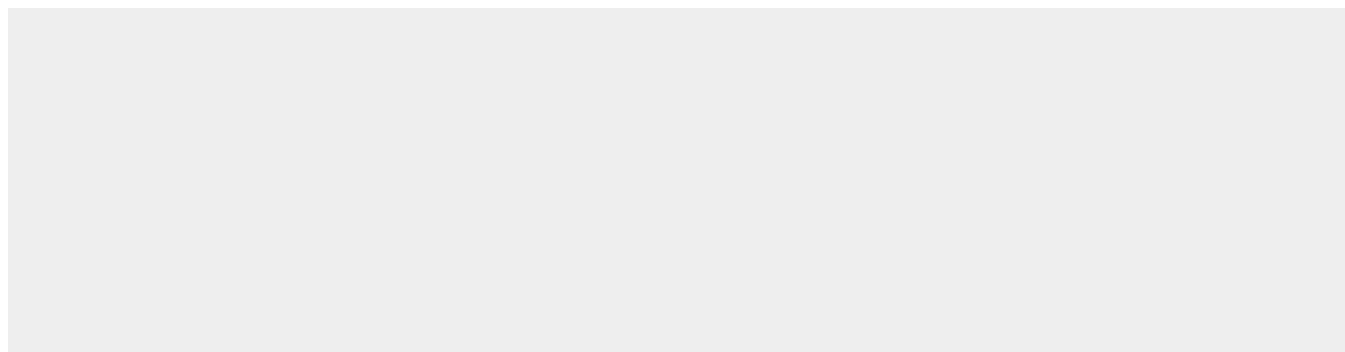
Tissue Location

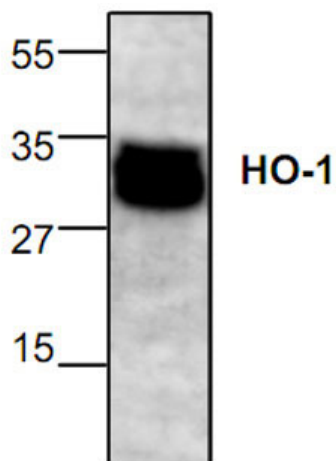
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

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 Cytometry](#)
- [Cell Culture](#)

Heme Oxygenase-1 Antibody - Images



Western blot analysis of HO-1 expression in Jurkat cell lysate.

Heme Oxygenase-1 Antibody - Background

Heme oxygenase-1 (HO-1) or HSP32 is the inducible isoform of heme oxygenase which catalyzes the NADPH, O₂ and cytochrome P450 reductase dependent oxidation of heme to carbon monoxide, iron and biliverdin that is immediately reduced to bilirubin. To date, three heme oxygenase isoforms HO-1, HO-2 and HO-3 have been identified.