

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

**Specification**

**Heme Oxygenase-1 Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P09601</a>
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.

**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:<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

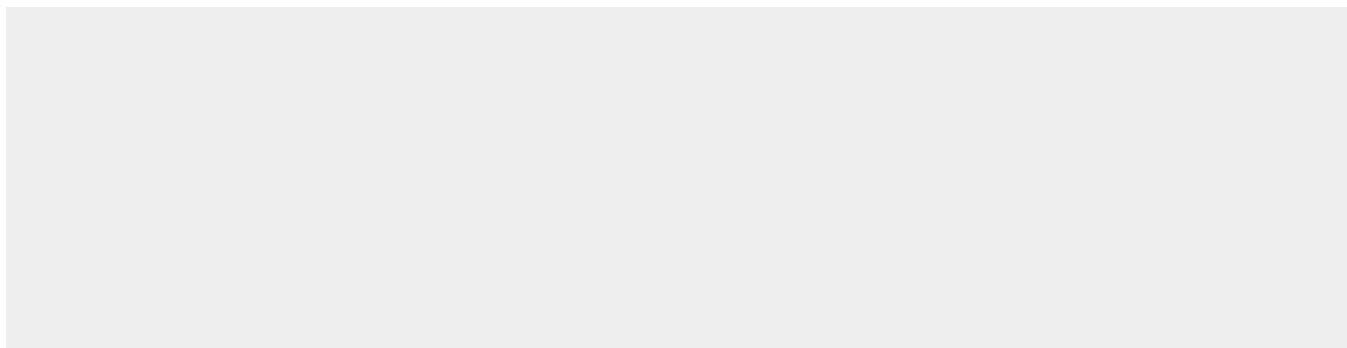
**Tissue Location**

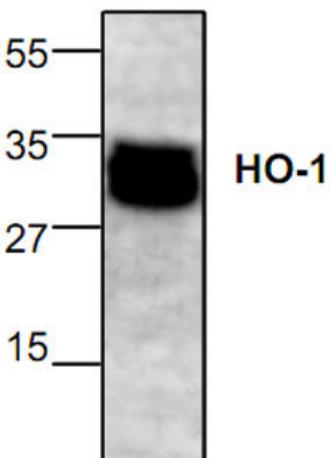
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

**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, O<sub>2</sub> 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.