10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Heme Oxygenase-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10286

Specification

Heme Oxygenase-1 Antibody - Product Information

Application	**WB**
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.**

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 Cytomety
- Cell Culture

Heme Oxygenase-1 Antibody - Images

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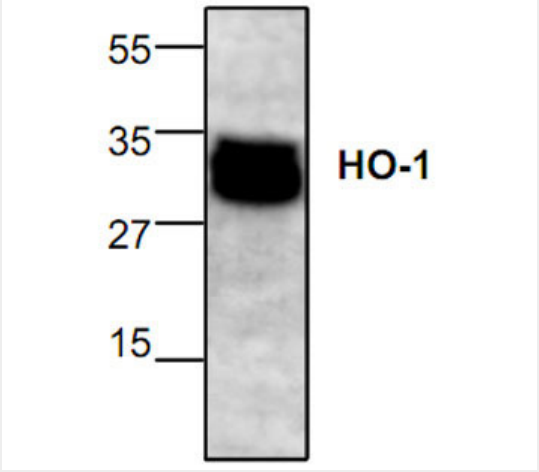

Western blot analysis of HO-1 expression in Jurkat cell lysate.

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.