

Heme Oxygenase-2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10287**Specification**

Heme Oxygenase-2 Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	P30519
Other Accession	2Q32B
Reactivity	Human, Mouse, Rat, Hamster, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36033

Heme Oxygenase-2 Antibody - Additional Information**Gene ID** 3163

Application & Usage	Western blotting (0.5-4 µg/ml), in immunoprecipitation (20 µg/ml) and Immunohistochemistry (20 µg/ml, frozen section tested). However, the optimal concentrations should be determined individually. The antibody recognizes ~36 kDa Heme-Oxygenase-2 of human, mouse, rat, hamster, and monkey origins. Blocking peptide is available separately.
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Other Names

Heme oxygenase 2, HO-2, 1.14.99.3, HMOX2, HO2

Target/Specificity

Heme Oxygenase-2

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-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Heme Oxygenase-2 Antibody - Protein Information

Name HMOX2

Synonyms HO2

Function

[Heme oxygenase 2]: 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.

Cellular Location

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

Heme Oxygenase-2 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-2 Antibody - Images

Heme Oxygenase-2 Antibody - Background

Heme oxygenase (HO) is a microsomal enzyme that oxidatively cleaves heme, a pro-oxidant, into carbon monoxide and biliverdin. Two heme oxygenase isozymes, termed HO-1 and HO-2, have been identified so far. At the amino acid level, HO-1 and HO-2 are 42% homologous. However, each isozyme is evolutionary highly conserved. HO-1 is the inducible form of the enzyme and is therefore also referred to as stress protein Hsp32. Expression of HO-1 can be induced by a variety of stimuli such as heme, metals, hormones, UV radiation and sulfhydryl depleting agents. In contrast, HO-2 is the constitutive form of the enzyme. It is not inducible by exogenous stimuli and HO-2 is the most prevalent form in most tissues, except the spleen where HO-1 levels are predominant under normal conditions.