

Heme Oxygenase 2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51976

Specification

Heme Oxygenase 2 Antibody - Product Information

Application	WB, E
Primary Accession	P30519
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36 KDa

Heme Oxygenase 2 Antibody - Additional Information

Gene ID 3163

Other Names

Heme oxygenase 2, HO-2, HMOX2, HO2

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

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 cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.

Heme Oxygenase 2 Antibody - References

Ishikawa K., et al. J. Biol. Chem. 270:6345-6350(1995).
McCoubrey W.K. Jr., et al. Arch. Biochem. Biophys. 295:13-20(1992).
Kalnina N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Martin J., et al. Nature 432:988-994(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.