

Heme Oxygenase 2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51976

Product Information

Application	WB
Primary Accession	P30519
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36033

Additional Information

Gene ID	3163
Other Names	Heme oxygenase 2, HO-2, HMOX2, HO2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Heme Oxygenase 2. The exact sequence is proprietary.
Dilution	WB~~1:1000
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

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}

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.

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).
Kalnine 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.

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