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HO-2 Rabbit pAb

Catalog # AP97172

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P30519
Other Accession	P30519
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36033
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HO-2
Epitope Specificity	31-150/316
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the heme oxygenase family. Contains 2 HRM (heme regulatory motif) repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 sequestrated and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter. Summary: catalyzes the conversion of heme to biliverdin; involved in cellular response to oxidative stress [SUBCELLULAR LOCATION] Microsome. Endoplasmic reticulum. [INDUCTION] Heme oxygenase 2 activity is non-inducible. [SIMILARITY] Belongs to the heme oxygenase family.

Additional Information

Gene ID	3163
Other Names	HO-2; HO2; HMOX2_HUMAN; HMOX2; 1.14.14.18; HMOX2_MOUSE; HMOX2_RABIT; HMOX2_RAT; heme oxygenase 2; heme oxygenase (decycling) 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.2 ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.