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HMOX2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19328a

Product Information

Application	WB, E
Primary Accession	P30519
Other Accession	P23711, O70252, Q2PG53, NP_002125.3
Reactivity	Human
Predicted	Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40236
Calculated MW	36033
Antigen Region	24-52

Additional Information

Gene ID	3163
Other Names	Heme oxygenase 2, HO-2, HMOX2, HO2
Target/Specificity	This HMOX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-52 amino acids from the N-terminal region of human HMOX2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HMOX2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

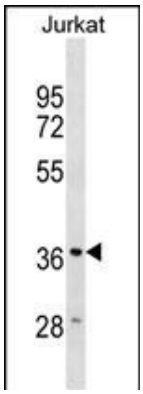
Background

Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. Alternative splice variants encoding the same protein have been identified at this locus.

References

Abdel Aziz, M.T., et al. Andrologia 42(4):236-241(2010)
Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010)
He, J.Z., et al. J. Biol. Chem. 285(13):9452-9461(2010)
Zhong, J.L., et al. Free Radic. Biol. Med. 48(2):196-206(2010)
Yun, L., et al. Clin. Exp. Hypertens. 31(7):534-543(2009)

Images



HMOX2 Antibody (N-term)(Cat. #AP19328a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the HMOX2 antibody detected the HMOX2 protein (arrow).