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Product datasheet for TA503823AM

Heme oxygenase 2 (HMOX2) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1H10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1H10
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HMOX2(NP_002125) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.9 kDa
Gene Name:	heme oxygenase 2
Database Link:	NP_002125 Entrez Gene 15369 MouseEntrez Gene 79239 RatEntrez Gene 3163 Human P30519

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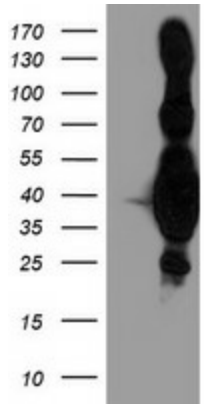
Background: Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme 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. [provided by RefSeq, Jul 2008]

Synonyms: HO-2

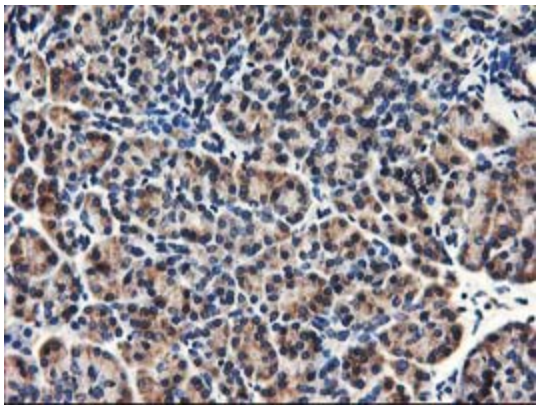
Protein Families: Transmembrane

Protein Pathways: Porphyrin and chlorophyll metabolism

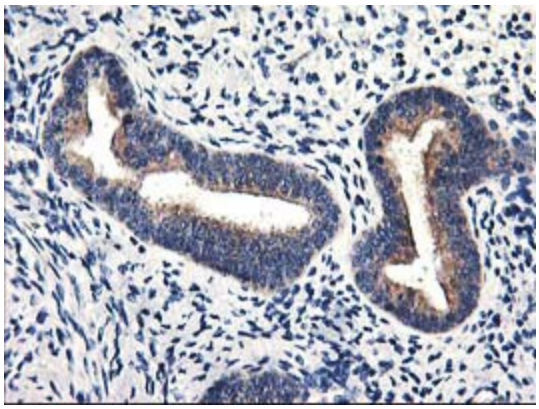
Product images:



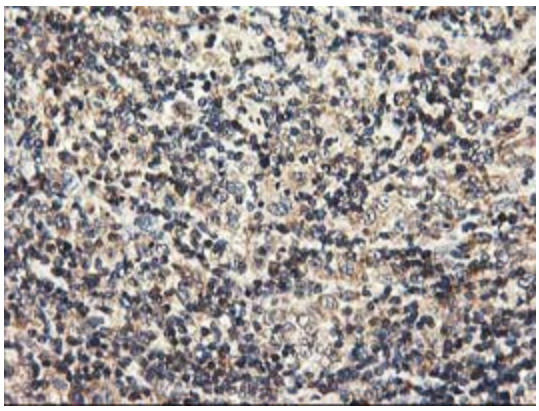
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HMOX2 ([RC201777], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HMOX2. Positive lysates [LY419512] (100ug) and [LC419512] (20ug) can be purchased separately from OriGene.



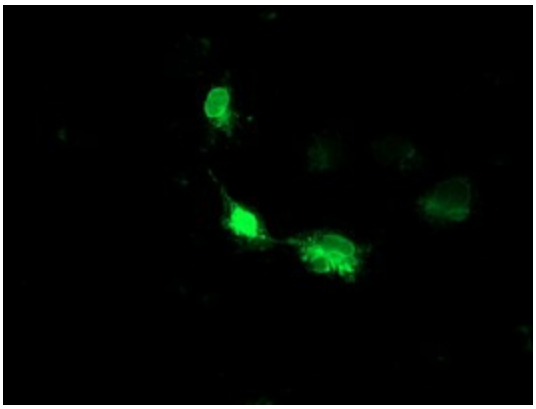
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-HMOX2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503823])



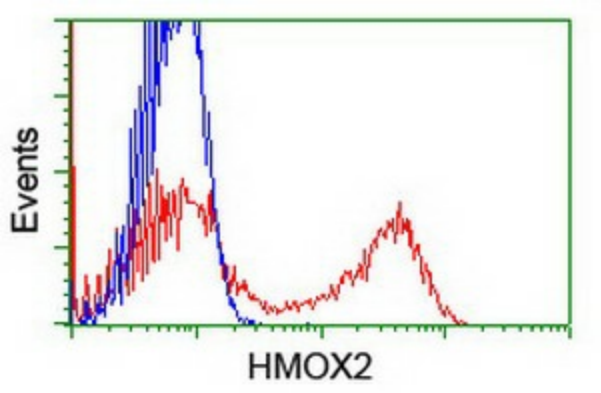
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-HMOX2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503823])



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-HMOX2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503823])



Anti-HMOX2 mouse monoclonal antibody ([TA503823]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HMOX2 ([RC201777]).



HEK293T cells transfected with either [RC201777] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-HMOX2 antibody ([TA503823]), and then analyzed by flow cytometry.