

Product datasheet for **CF503819**

Heme oxygenase 2 (HMOX2) Mouse Monoclonal Antibody [Clone ID: OTI1D10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D10
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HMOX2(NP_002125) produced in HEK293T cell
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.9 kDa
Gene Name:	Homo sapiens heme oxygenase 2 (HMOX2), transcript variant 3, mRNA.
Database Link:	NP_002125 Entrez Gene 15369 Mouse Entrez Gene 79239 Rat Entrez 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]

Synonyms:

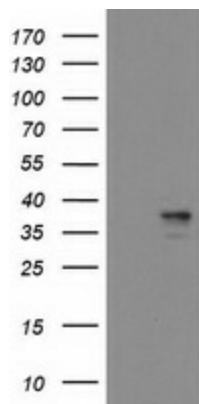
HO-2

Protein Families:

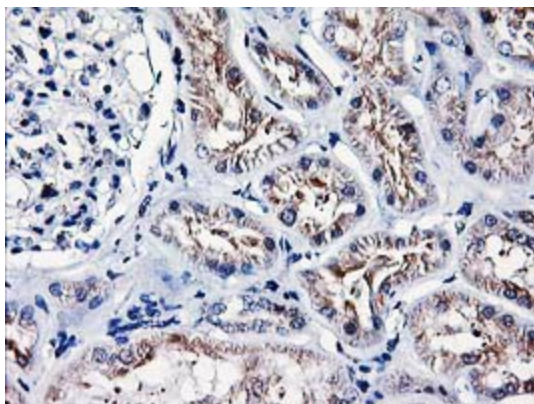
Transmembrane

Protein Pathways:

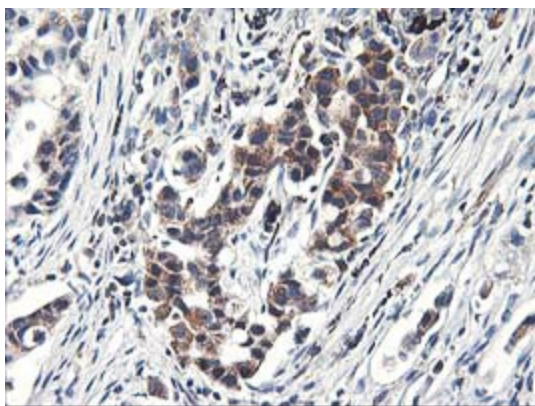
Porphyrin and chlorophyll metabolism

Product images:


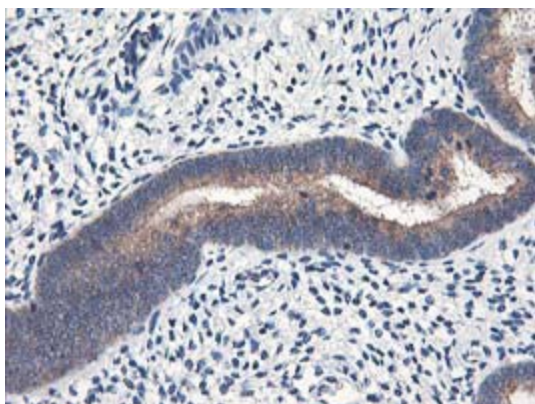
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HMOX2 ([RC201777], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HMOX2. Positive lysates [LY419512] (100ug) and [LC419512]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



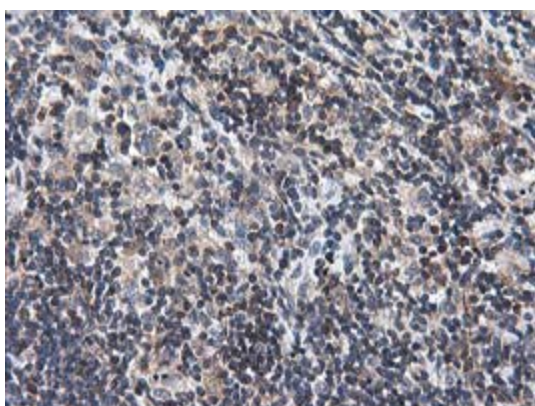
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-HMOX2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503819])



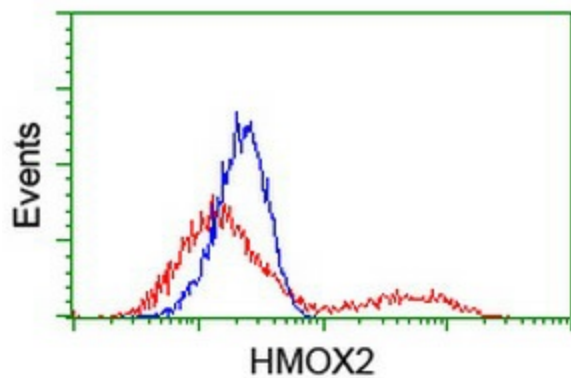
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-HMOX2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503819])



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, [TA503819])



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, [TA503819])



HEK293T cells transfected with either [RC201777] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-HMOX2 antibody ([TA503819]), and then analyzed by flow cytometry.