

Product datasheet for **CF503925**

Heme oxygenase 2 (HMOX2) Mouse Monoclonal Antibody [Clone ID: OTI4H8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4H8
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, 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:	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, Jul 2008]

Synonyms:

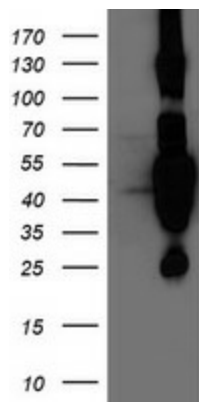
HO-2

Protein Families:

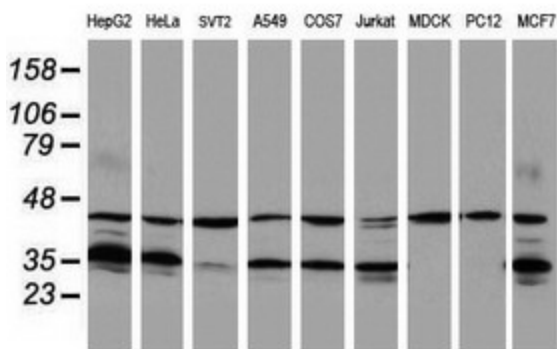
Transmembrane

Protein Pathways:

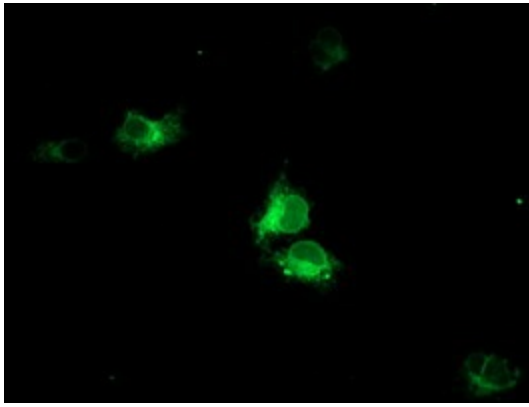
Porphyrin and chlorophyll metabolism

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.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-HMOX2 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Anti-HMOX2 mouse monoclonal antibody ([TA503925]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HMOX2 ([RC201777]).

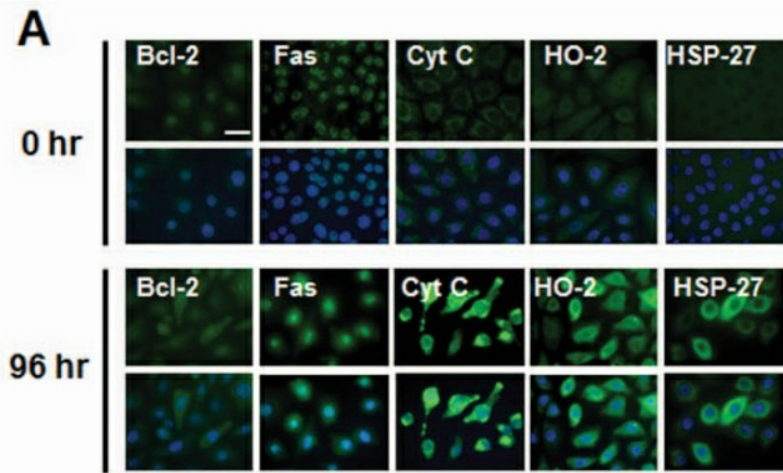
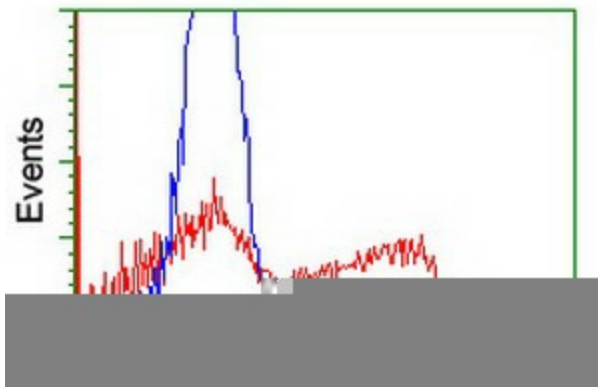


Figure from citation: Immunofluorescence of HO-2 (also known as HMOX2) protein level by using anti-HMOX2 antibody in supernatant of SGECs cocultured with HCT-5 cells. ([View Citation](#))



HEK293T cells transfected with either [RC201777] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-HMOX2 antibody ([TA503925]), and then analyzed by flow cytometry.