

Goat Anti-HMOX2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1534a

Specification

Goat Anti-HMOX2 Antibody - Product Information

Application	WB, IHC, E
Primary Accession	P30519
Other Accession	NP_002125 , 3163 , 15369 (mouse)
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	36033

Goat Anti-HMOX2 Antibody - Additional Information

Gene ID 3163

Other Names

Heme oxygenase 2, HO-2, 1.14.99.3, HMOX2, HO2

Dilution

WB~~1:1000
IHC~~1:100~500
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-HMOX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HMOX2 Antibody - 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.

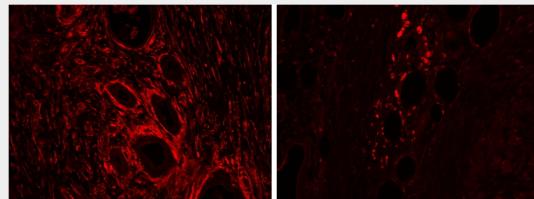
Cellular Location

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}

Goat Anti-HMOX2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-HMOX2 Antibody - Images

AF1534a (2 µg/ml) staining of paraffin embedded Human Pancreas: cancer (left), adjacent to cancer (right). Steamed antigen retrieval with citrate buffer pH 6, Alexa594-staining.



AF1534a (0.3 µg/ml) staining of K562 cell lysate (35 µg protein in RIPA buffer). Primary incubation

was 1 hour. Detected by chemiluminescence.

Goat Anti-HMOX2 Antibody - 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.

Goat Anti-HMOX2 Antibody - References

Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. *J Hum Genet*, 2010 Aug. PMID 20485444.

Enhanced translation of heme oxygenase-2 preserves human endothelial cell viability during hypoxia. He JZ, et al. *J Biol Chem*, 2010 Mar 26. PMID 20118244.

Association of an intronic variant of the heme oxygenase-1 gene with hypertension in northern Chinese Han population. Yun L, et al. *Clin Exp Hypertens*, 2009 Oct. PMID 19886851.

A role for Bach1 and HO-2 in suppression of basal and UVA-induced HO-1 expression in human keratinocytes. Zhong JL, et al. *Free Radic Biol Med*, 2010 Jan 15. PMID 19874887.

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. *Cell*, 2009 Jul 23. PMID 19615732.