

HMOX1 / HO-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12820**Specification**

HMOX1 / HO-1 Antibody - Product Information

Application	IHC
Primary Accession	P09601
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa KDa

HMOX1 / HO-1 Antibody - Additional Information**Gene ID** 3162**Other Names**

Heme oxygenase 1, HO-1, 1.14.99.3, HMOX1, HO, HO1

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

HMOX1 / HO-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HMOX1 / HO-1 Antibody - Protein Information**Name** HMOX1**Synonyms** HO, HO1**Function**

[Heme oxygenase 1]: 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 (PubMed:[11121422](http://www.uniprot.org/citations/11121422)), PubMed:[19556236](http://www.uniprot.org/citations/19556236)), PubMed:[7703255](http://www.uniprot.org/citations/7703255)). Affords protection against programmed cell death and this cytoprotective effect relies on its ability to catabolize free heme and prevent it from sensitizing cells to undergo apoptosis (PubMed:[20055707](http://www.uniprot.org/citations/20055707)).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type IV membrane protein; Cytoplasmic side

Tissue Location

Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

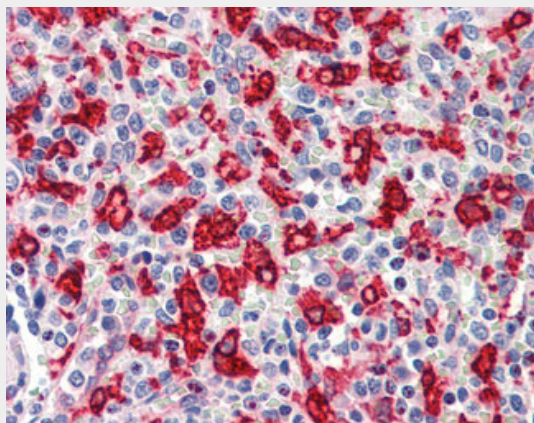
Volume

50 μ l

HMOX1 / HO-1 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](#)

HMOX1 / HO-1 Antibody - Images

Anti-HMOX1 / Heme Oxygenase 1 antibody IHC of human spleen.

HMOX1 / HO-1 Antibody - Background

Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis.

HMOX1 / HO-1 Antibody - References

- Yoshida T., et al. *Eur. J. Biochem.* 171:457-461(1988).
Collins J.E., et al. *Genome Biol.* 5:R84.1-R84.11(2004).
Dunham I., et al. *Nature* 402:489-495(1999).
Keyse S.M., et al. *Proc. Natl. Acad. Sci. U.S.A.* 86:99-103(1989).
Shibahara S., et al. *Eur. J. Biochem.* 179:557-563(1989).