

**HMOX1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11240c****Specification**

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**HMOX1 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">P09601</a>
Other Accession	<a href="#">NP_002124.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32819
Antigen Region	177-204

**HMOX1 Antibody (Center) - Additional Information**

**Gene ID** 3162

**Other Names**

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

**Target/Specificity**

This HMOX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 177-204 amino acids from the Central region of human HMOX1.

**Dilution**

WB~~1:1000

FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

HMOX1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HMOX1 Antibody (Center) - 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](#), PubMed:[19556236](#), PubMed:[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](#)).

**Cellular Location**

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

**Tissue Location**

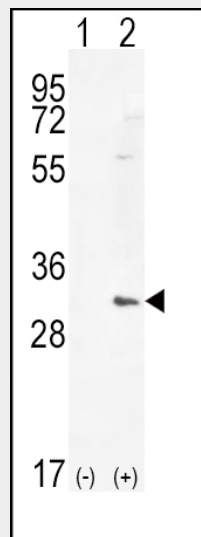
Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

**HMOX1 Antibody (Center) - Protocols**

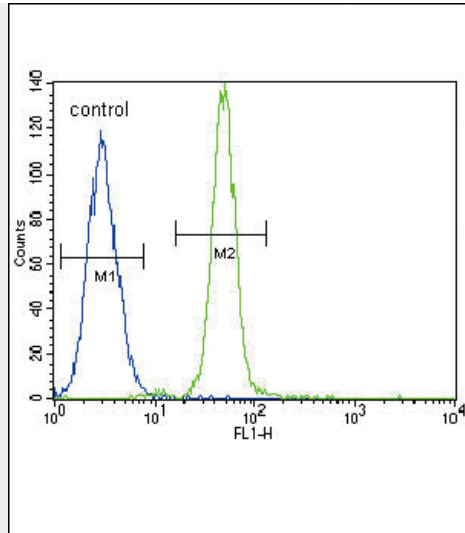
Provided below are standard protocols that you may find useful for product applications.

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

**HMOX1 Antibody (Center) - Images**



Western blot analysis of HMOX1 (arrow) using rabbit polyclonal HMOX1 Antibody (Center) (Cat. #AP11240c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HMOX1 gene.



HMOX1 Antibody (Center) (Cat. #AP11240c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **HMOX1 Antibody (Center) - 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.

### **HMOX1 Antibody (Center) - References**

Wu, M.M., et al. *Toxicol. Appl. Pharmacol.* 248(3):226-233(2010)  
 Bolisetty, S., et al. *J. Am. Soc. Nephrol.* 21(10):1702-1712(2010)  
 Bao, W., et al. *PLoS ONE* 5 (8), E12371 (2010) :  
 Wu, M.M., et al. *J. Biomed. Sci.* 17, 70 (2010) :  
 Wang, X., et al. *PLoS ONE* 5 (8), E11934 (2010) :

### **HMOX1 Antibody (Center) - Citations**

- [Fasudil Enhances Therapeutic Efficacy of Neural Stem Cells in the Mouse Model of MPTP-Induced Parkinson's Disease.](#)