

For Research Use Only

# HMOX2 Polyclonal antibody

Catalog Number: 14817-1-AP

6 Publications



## Basic Information

<b>Catalog Number:</b> 14817-1-AP	<b>GenBank Accession Number:</b> BC002396	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3163	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P30519	
<b>Isotype:</b> IgG	<b>Full Name:</b> heme oxygenase (decycling) 2	
<b>Immunogen Catalog Number:</b> AG6575	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 36 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, K-562 cells, mouse spleen tissue, Raji cells IP : Raji cells, IHC : human lymphoma tissue, IF/ICC : HeLa cells,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Heme oxygenase is the rate-limiting enzyme in the heme degradative pathway. There are 2 isozymic forms of heme oxygenase, an inducible heme oxygenase-1 (HMOX1) and a constitutive heme oxygenase-2 (HMOX2). Down-regulation of HMOX2 is associated with the increased expression of HMOX1 in human cell lines. HMOX2 is also named as HO-2 and could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.

## Notable Publications

Author	Pubmed ID	Journal	Application
Katarzyna Magierowska	26460608	PLoS One	WB
Dongqing Guo	26621031	J Cell Sci	WB
Katarzyna Magierowska	32408627	Cells	WB

## Storage

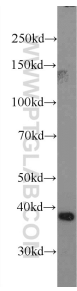
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

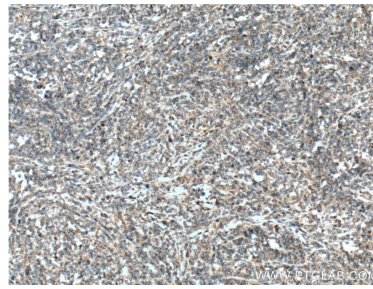
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

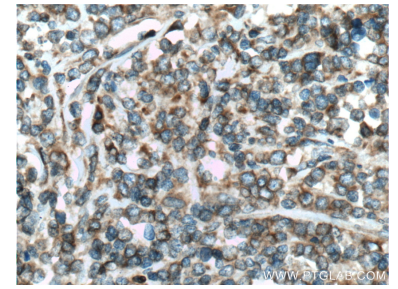
## Selected Validation Data



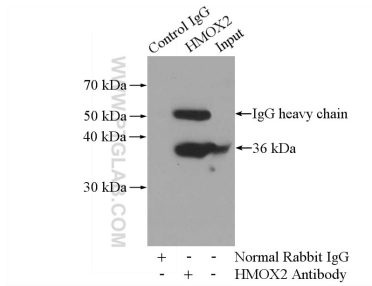
HepG2 cells were subjected to SDS PAGE followed by western blot with 14817-1-AP (HMOX2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



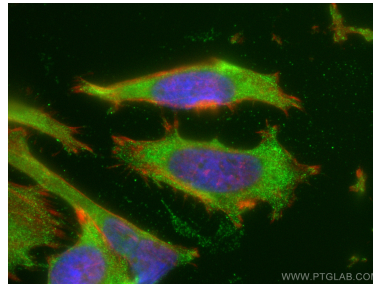
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 14817-1-AP (HMOX2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 14817-1-AP (HMOX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-HMOX2 (IP:14817-1-AP, 4ug; Detection:14817-1-AP 1:500) with Raji cells lysate 2000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using HMOX2 antibody (14817-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).