

For Research Use Only

# HMOX2 Polyclonal antibody

Catalog Number: 14817-1-AP

7 Publications



## Basic Information

### Catalog Number:

14817-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6575

### GenBank Accession Number:

BC002396

### GeneID (NCBI):

3163

### UNIPROT ID:

P30519

### Full Name:

heme oxygenase (decycling) 2

### Calculated MW:

36 kDa

### Observed MW:

36 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

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

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HepG2 cells, K-562 cells, mouse spleen tissue, Raji cells

**IP** : Raji cells,

**IHC** : human lymphoma tissue,

**IF/ICC** : HeLa cells,

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

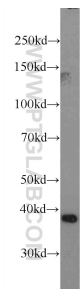
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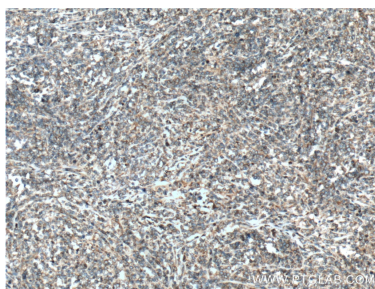
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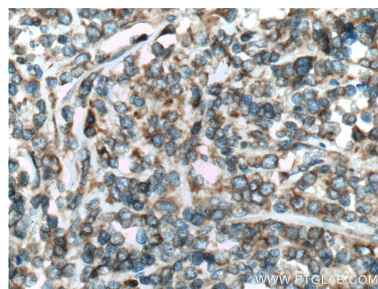
Selected Validation Data



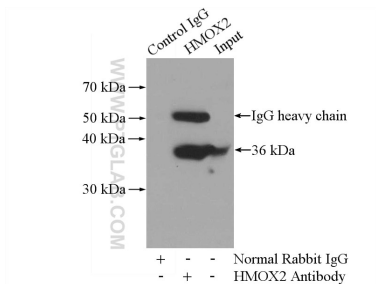
HepG2 cells were subjected to SDS PAGE followed by western blot with 14817-1-AP (HMOX2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



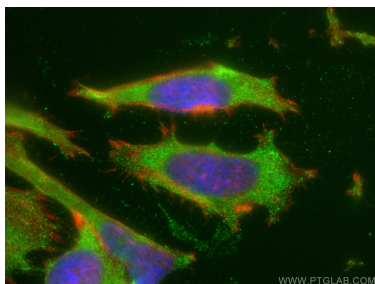
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 14817-1-AP (HMOX2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).