



Rabbit Anti-HO-1 antibody

SL23397R

Product Name:	HO-1
Chinese Name:	血红素氧合酶 1/热休克蛋白32抗体
Alias:	Heme oxygenase (decycling) 1; Heme oxygenase 1; Hemox; HMOX 1; Hmox; HMOX1; HO 1; HO; HO1; Hsp32; bK286B10; D8Wsu38e.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse HO-1:201-289/289
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The hemeoxygenase-1 calls that the hemoglobin oxidizes to synthesize the enzyme again-1(hemeoxygenase-1, HO-1) is the catalyst enzyme that a kind of hemoglobin declines the solution, under the NADPH and the cell dye P-450 revivification enzymes and the member oxygen functions, the catalyst HO-1 hemoglobin declines the solution as the courage green vegetable, CO and irons, the former revivification has the very strong anti- to oxidize the ability after become the red vegetable of courage , the latter is

a kind of important letter to make the member.

Function:

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.

Subcellular Location:

Microsome. Endoplasmic reticulum.

Tissue Specificity:

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

DISEASE:

Defects in HMOX1 are the cause of heme oxygenase 1 deficiency (HMOX1D) [MIM:614034]. A disease characterized by impaired stress hematopoiesis, resulting in marked erythrocyte fragmentation and intravascular hemolysis, coagulation abnormalities, endothelial damage, and iron deposition in renal and hepatic tissues. Clinical features include persistent hemolytic anemia, asplenia, nephritis, generalized erythematous rash, growth retardation and hepatomegaly.

Similarity:

Belongs to the heme oxygenase family.

SWISS:

P09601

Gene ID:

3162

Database links:

[Entrez Gene: 442987](#)Dog

[Entrez Gene: 3162](#)Human

[Entrez Gene: 15368](#)Mouse

[Entrez Gene: 24451](#)Rat

[Omim: 141250](#)Human

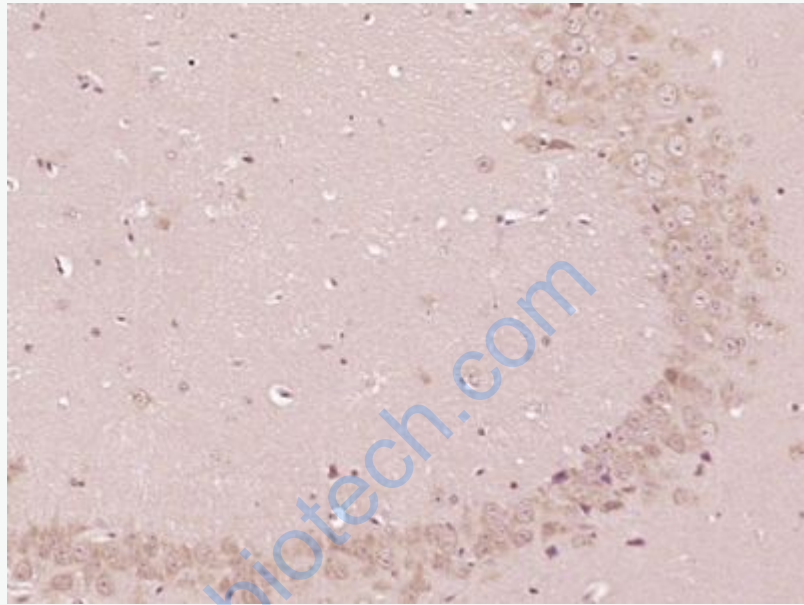
[SwissProt: Q5E9F2](#)Cow

[SwissProt: P09601](#)Human

[SwissProt: P14901](#)Mouse

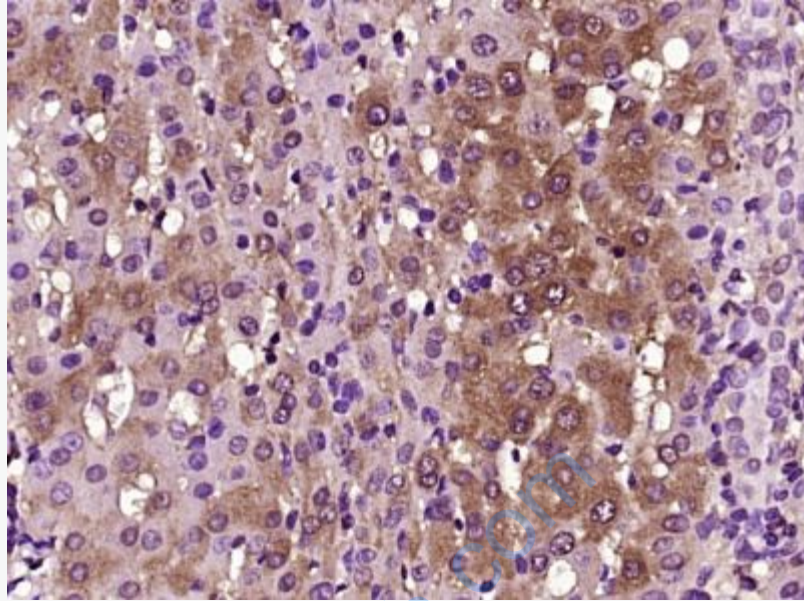
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HO-1) Polyclonal Antibody, Unconjugated (SL23397R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HO-1) Polyclonal Antibody, Unconjugated (SL23397R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.