

## Basic Information

<b>Product Name</b>	Anti-HO-1/HMOX1 Antibody	
<b>Gene Name</b>	HMOX1	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	mouse, rat	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E.coli-derived mouse HMOX1 recombinant protein (Position: E2-T261). Mouse HMOX1 shares 82% and 93% amino acid (aa) sequences identity with human and rat HMOX1, respectively.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	33 kDa	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

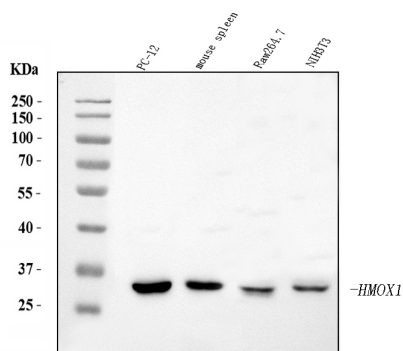
## Background Information

HMOX1 (heme oxygenase (decycling) 1) is a human gene that encodes for the enzyme heme oxygenase 1. It is an essential enzyme in heme catabolism, it cleaves heme to form biliverdin. HMOX1 belongs to the heme oxygenase family. The HMOX1 gene is located on the long (q) arm of chromosome 22 at position 12.3, from base pair 34,101,636 to base pair 34,114,748. HMOX1, 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. HMOX1 activity is induced by its substrate heme and by various nonheme substances.

## Reference

Anti-HO-1/HMOX1 Antibody被引用在36文献中。

## Selected Validation Data



Western blot analysis of anti-HO-1/HMOX1 antibody (PB0050). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat PC-12 whole cell lysates,

Lane 2: mouse spleen tissue lysates,

Lane 3: mouse RAW264.7 whole cell lysates,

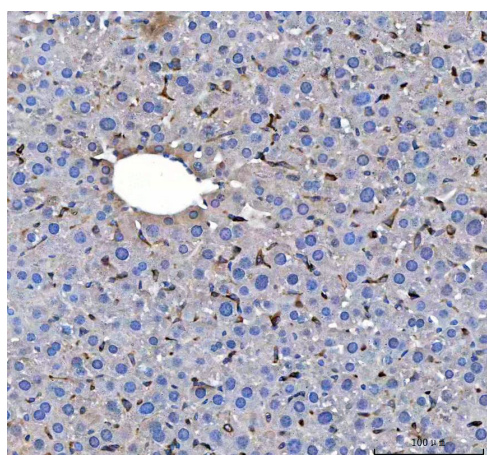
Lane 4: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-HO-1/HMOX1 antigen affinity purified polyclonal antibody (PB0050) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054).

The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HO-1/HMOX1 at approximately 33 kDa.

The expected band size for HO-1/HMOX1 is at 33 kDa.



IHC analysis of HO-1/HMOX1 using anti-HO-1/HMOX1 antibody (PB0050).

HO-1/HMOX1 was detected in a paraffin-embedded section of mouse liver tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.