

**Anti-HMOX2 Picoband Antibody**  
**Catalog # ABO11904****Specification****Anti-HMOX2 Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P30519</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Heme oxygenase 2(HMOX2) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-HMOX2 Picoband Antibody - Additional Information****Gene ID 3163****Other Names**

Heme oxygenase 2, HO-2, 1.14.14.18, HMOX2, HO2

**Calculated MW**

36033 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Microsome. Endoplasmic reticulum.

**Protein Name**

Heme oxygenase 2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

E.coli-derived human HMOX2 recombinant protein (Position: S2-M316). Human HMOX2 shares 89% and 90% amino acid (aa) sequences identity with mouse and rat HMOX2, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

#### Sequence Similarities

Belongs to the heme oxygenase family.

### Anti-HMOX2 Picoband Antibody - Protein Information

Name HMOX2

Synonyms HO2

#### Function

[Heme oxygenase 2]: 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.

#### Cellular Location

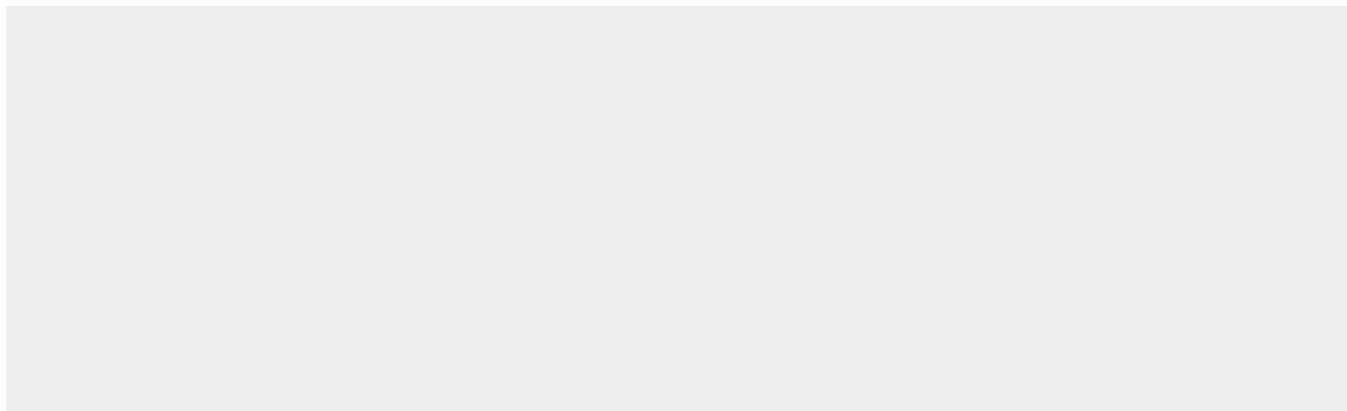
Microsome membrane; Single-pass type IV membrane protein; Cytoplasmic side  
{ECO:0000250|UniProtKB:P09601}. Endoplasmic reticulum membrane  
{ECO:0000250|UniProtKB:P09601}; Single-pass type IV membrane protein; Cytoplasmic side  
{ECO:0000250|UniProtKB:P09601}

### Anti-HMOX2 Picoband Antibody - 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](#)

### Anti-HMOX2 Picoband Antibody - Images

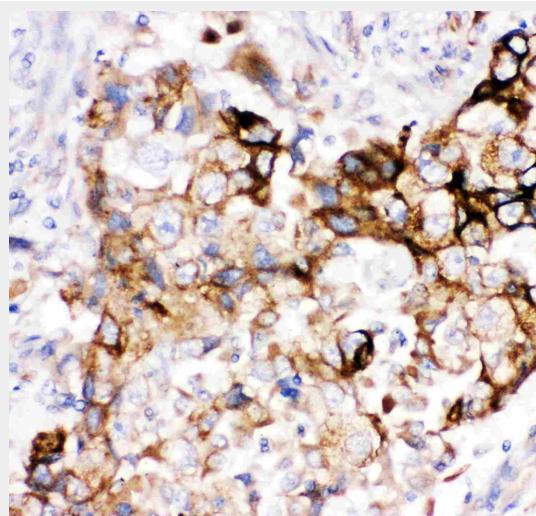


100KD-  
70KD-  
55KD-  
35KD-  
25KD-  
15KD-

Anti- HMOX2 antibody, ABO11904, Western blottingAll lanes: Anti HMOX2 (ABO11904) at 0.5ug/mlWB: Recombinant Human HMOX2 Protein 0.5ngPredicted bind size: 37KDObserved bind size: 37KD

1 2 3 4 5 6  
100KD-  
70KD-  
55KD-  
35KD-  
25KD-  
15KD-

Anti- HMOX2 antibody, ABO11904, Western blottingAll lanes: Anti HMOX2 (ABO11904) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: MM231 Whole Cell Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: SKOV Whole Cell Lysate at 40ugPredicted bind size: 36KDObserved bind size: 36KD



Anti- HMOX2 antibody, ABO11904, IHC(P)IHC(P): Human Lung Cancer Tissue

### Anti-HMOX2 Picoband Antibody - Background

Heme oxygenase 2 (HMOX2), also known as HO-2, is an enzyme that in humans is encoded by the HMOX2 gene. It is mapped to 16p13.3. HMOX2 belongs to the heme oxygenase family. 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. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.