

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

Anti-HMOX2 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P30519
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
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Microsome. Endoplasmic reticulum.

Protein Name

Heme oxygenase 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

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 reconstitution, 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

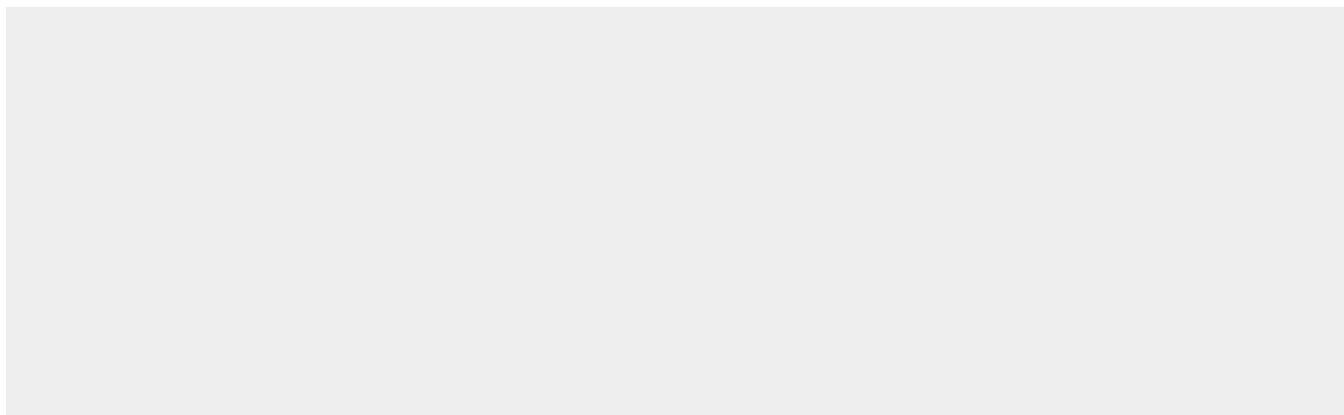
Microsome membrane; Single-pass type IV membrane protein; Cytoplasmic side
{ECO:0000250|UniProtKB:P09601}. Endoplasmic reticulum membrane
{ECO:0000250|UniProtKB:P09601}; Single-pass type IV membrane protein; Cytoplasmic side
{ECO:0000250|UniProtKB:P09601}

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



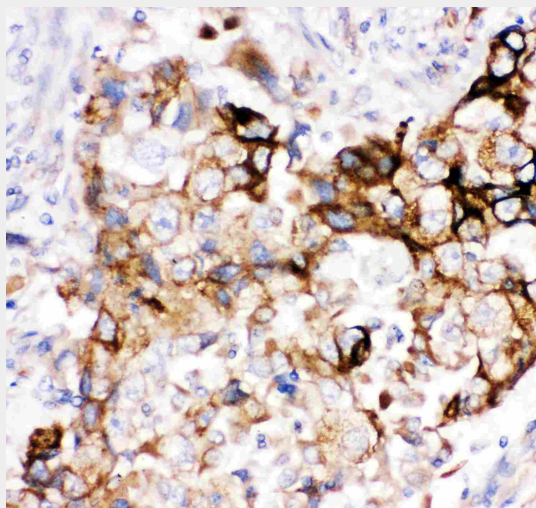
100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

Anti- HMOX2 antibody, ABO11904, Western blotting All lanes: Anti HMOX2 (ABO11904) at 0.5ug/ml WB: Recombinant Human HMOX2 Protein 0.5ng Predicted bind size: 37KD Observed bind size: 37KD

100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

1 2 3 4 5 6

Anti- HMOX2 antibody, ABO11904, Western blotting All lanes: Anti HMOX2 (ABO11904) at 0.5ug/ml Lane 1: Rat Kidney Tissue Lysate at 50ug Lane 2: A549 Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: MM231 Whole Cell Lysate at 40ug Lane 5: HELA Whole Cell Lysate at 40ug Lane 6: SKOV Whole Cell Lysate at 40ug Predicted bind size: 36KD Observed 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.