10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

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 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 Cytomety
- Cell Culture

Anti-HMOX2 Picoband Antibody - Images

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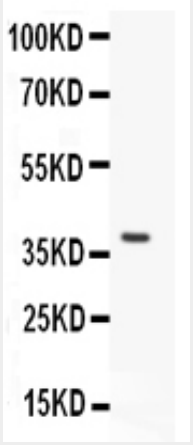
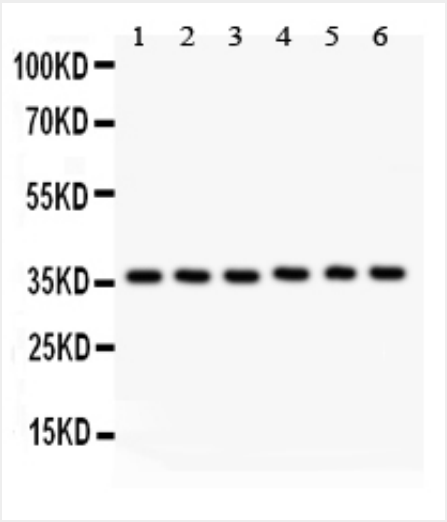
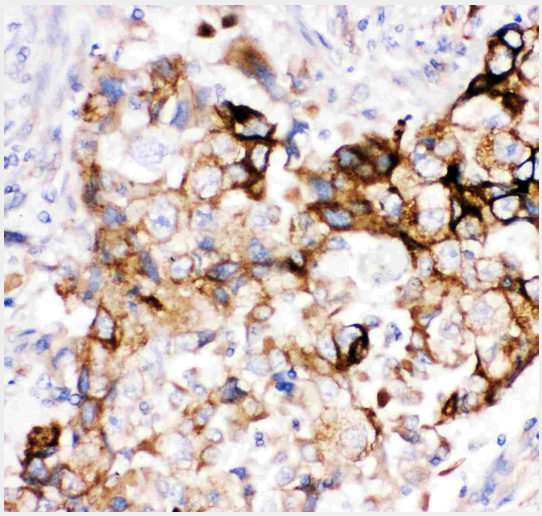


Anti- HMOX2 antibody, ABO11904, Western blottingAll lanes: Anti HMOX2 (ABO11904) at 0.5ug/mlWB: Recombinant Human HMOX2 Protein 0.5ngPredicted bind size: 37KDObserved bind size: 37KD



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



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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 sequestrated and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.