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# Anti-HMOX2 Picoband Antibody

Catalog # ABO11904

## Product Information

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|---|---|
| **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. |

## Additional Information

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| **Gene ID** | 3163 |
| **Other Names** | Heme oxygenase 2, HO-2, 1.14.14.18, HMOX2, HO2 |
| **Calculated MW** | 36033 |
| **Application Details** | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat<br>Western blot, 0.1-0.5 □g/ml, Human |
| **Subcellular Localization** | Microsome. Endoplasmic reticulum. |
| **Source** | Eukaryota |
| **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. |

## Protein Information

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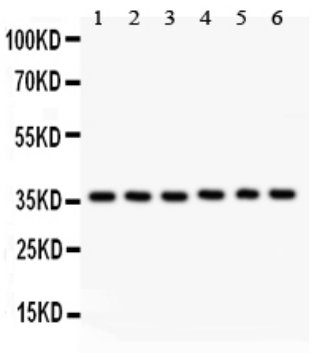
|---|---|
| **Name** | HMOX2 |
| **Synonyms** | HO2 |
| **Function** | [Heme oxygenase 2]: Catalyzes the oxidative cleavage of heme at the alpha-methene bridge carbon, released as carbon monoxide (CO), to generate biliverdin IXalpha, while releasing the central heme iron chelate as ferrous iron. |
| **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} |

## 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.

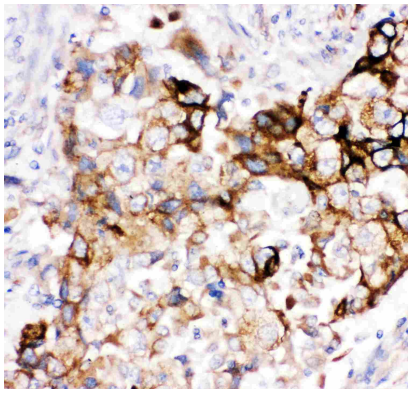
## Images


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

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.