Datasheet for ABIN3042450

anti-HMOX2 antibody (AA 2-316)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	HMOX2
Binding Specificity:	AA 2-316
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMOX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Heme oxygenase 2(HMOX2) detection. Tested with WB, IHC-P in Human.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Heme oxygenase 2(HMOX2) detection. Tested with WB, IHC-P in Human. Gene Name: heme oxygenase (decycling) 2 Protein Name: Heme oxygenase 2
Purification:	Immunogen affinity purified.

Target Details

Target:	HMOX2
Alternative Name:	HMOX2 (HMOX2 Products)
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. Synonyms: Heme oxygenase (decycling) 2 antibody|Heme oxygenase (decyclizing) 2 antibody|Heme oxygenase 2 antibody|HMOX 2 antibody|HMOX2 antibody|HMOX2 protein antibody|HMOX2_HUMAN antibody|HO 2 antibody|HO-2 antibody|HO2 antibody|OTTHUMP00000159847 antibody|
Gene ID:	3163
UniProt:	P30519
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for HMOX2 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

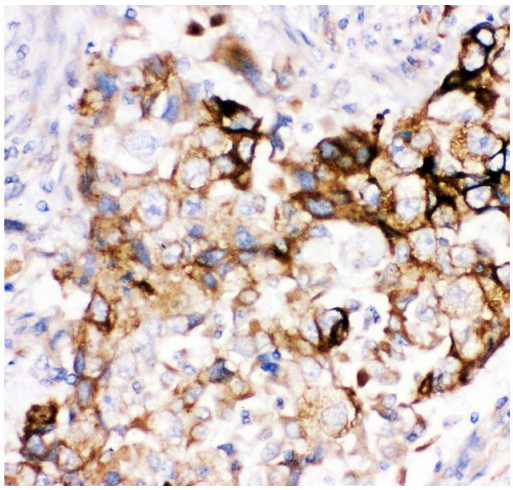
Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.

Images

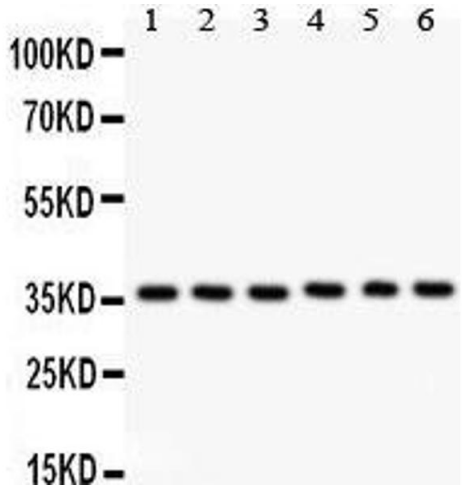
Western Blotting

Image 1. Anti- HMOX2 antibody, Western blotting All lanes: Anti HMOX2 at 0.5ug/ml WB: Recombinant Human HMOX2 Protein 0.5ng Predicted bind size: 37KD Observed bind size: 37KD



Immunohistochemistry

Image 2. Anti- HMOX2 antibody, IHC(P) IHC(P): Human Lung Cancer Tissue



Western Blotting

Image 3. Anti- HMOX2 antibody, Western blotting All lanes: Anti HMOX2 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

