

Datasheet for ABIN3044022
anti-Prohibitin 2 antibody (Middle Region)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	Prohibitin 2 (PHB2)
Binding Specificity:	AA 111-128, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Prohibitin-2(PHB2) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human REA(111-128aa RPNAQELPSMYQRLGLDY), identical to the related rat and mouse sequences.
Sequence:	RPNAQELPSM YQRLGLDY
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: rat</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Prohibitin-2(PHB2) detection. Tested with WB, IHC-P, ICC in

Product Details

Human,Mouse,Rat.

Gene Name: prohibitin 2

Protein Name: Prohibitin-2

Purification: Immunogen affinity purified.

Target Details

Target: Prohibitin 2 (PHB2)

Alternative Name: PHB2 ([PHB2 Products](#))

Background: PHB2(Prohibitin 2), also called Repressor of Estrogen Receptor Activity(REA), is a protein that in humans is encoded by the PHB2 gene. The International Radiation Hybrid Mapping Consortium mapped the PHB2 gene to chromosome 12. Montano et al.(1999) showed that REA enhanced the potency of a dominant-negative ER-alpha mutant and antiestrogens as suppressors of ER-alpha activity in Chinese hamster ovary cells. When coexpressed with wildtype ER-alpha or ER-beta(ESR2), REA suppressed activation of a reporter gene in a dose-dependent manner. REA had no effect on reporter activity in the absence of liganded ER, and it had no effect on the transcriptional activities of other hormone receptors. Mutation analysis showed that an N-terminal domain and a central domain of REA were required for its repressor activity.

Synonyms: B cell receptor associated protein BAP37 antibody|B-cell associated protein antibody|B-cell receptor-associated protein BAP37 antibody|Bap 37 antibody|BAP antibody|Bap37 antibody|BCAP 37 antibody|BCAP37 antibody|D prohibitin antibody|D-prohibitin antibody|MGC117268 antibody|p22 antibody|PHB 2 antibody|PHB2 antibody|PHB2_HUMAN antibody|PNAS 141 antibody|PNAS141 antibody|Prohibitin 2 antibody|Prohibitin-2 antibody|Prohibitin2 antibody|Repressor of Estrogen Receptor Activity antibody

UniProt: [Q99623](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Predicted Species: Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
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.

Application Details

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. 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) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

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 Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

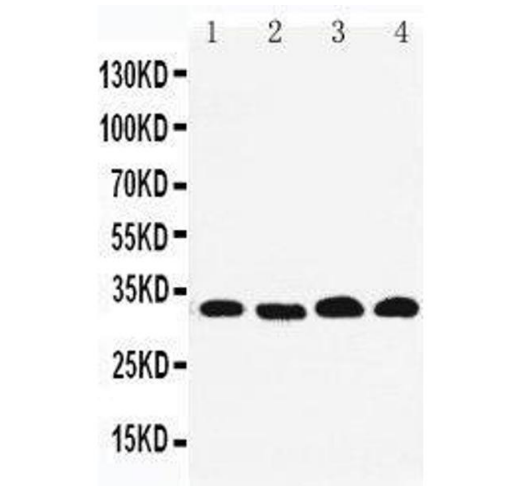
Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

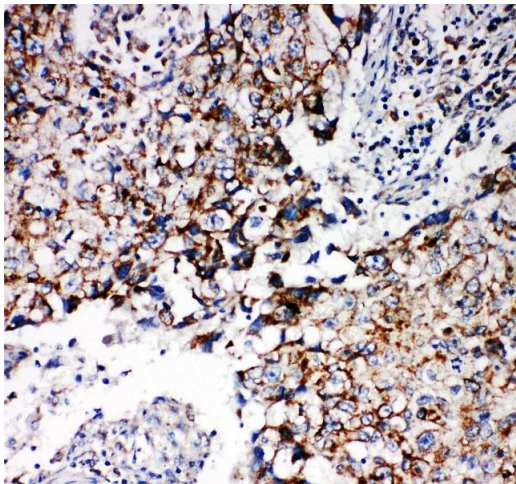
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months



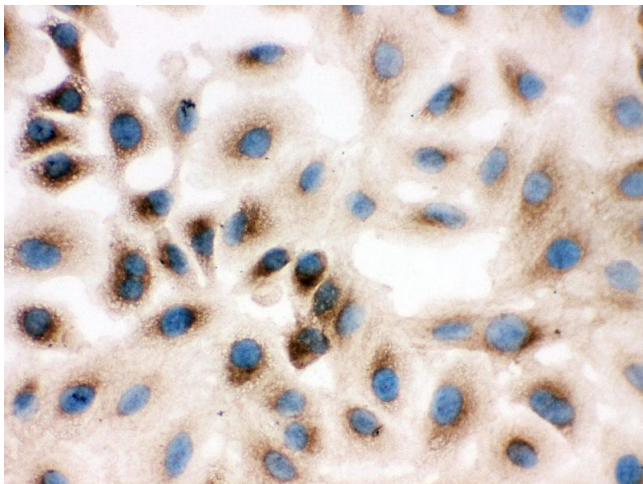
Western Blotting

Image 1. Anti-REA antibody, Western blotting Lane 1: PANC Cell Lysate Lane 2: COLO320 Cell Lysate Lane 3: U87Cell Lysate Lane 4: HEPA Cell Lysate



Immunohistochemistry

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



Immunohistochemistry

Image 3. Anti-REA antibody, ICC ICC: A549 Cell