Datasheet for ABIN3043749

anti-Caveolin 2 antibody (AA 1-162)

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Overview

Quantity:	100 µg
Target:	Caveolin 2 (CAV2)
Binding Specificity:	AA 1-162
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caveolin-2(CAV2) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse.
Immunogen:	E.coli-derived human Caveolin-2 recombinant protein (Position: M1-D162). Human Caveolin-2 shares 90% and 89% amino acid (aa) sequences identity with mouse and rat Caveolin-2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Caveolin-2(CAV2) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse. Gene Name: caveolin 2 Protein Name: Caveolin-2

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Caveolin 2 (CAV2)
Alternative Name:	CAV2 (CAV2 Products)
Background:	Caveolin-2 is a protein that in humans is encoded by the CAV2 gene. It is mapped to 7q31.1-q31.2. The protein encoded by this gene is a major component of the inner surface of caveolae, small invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. Caveolin-2 is a protein related to caveolin-1 which is derived caveolin-enriched membranes. CAV2 and CAV1 are similar in most respects and they differ in their functional interactions with heterotrimeric G proteins. Both of them are expressed in neuronal cells. Caveolin-2 was upregulated in response to neuronal cell injury. Synonyms: CAV antibody|CAV2 antibody|CAV2_HUMAN antibody|Caveolae protein 20 kD antibody|Caveolae protein 20kD antibody|Caveolin 2 isoform a and b antibody|Caveolin 2 isoform c antibody|Caveolin-2 antibody|MGC12294 antibody
Gene ID:	858
UniProt:	P51636
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Caveolin-2 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. IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse 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) and IHC(F).

Application Details

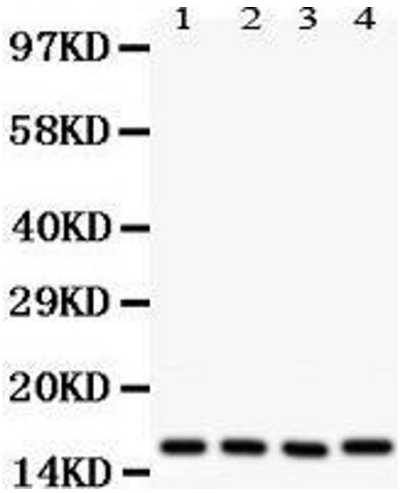
Restrictions:	For Research Use only

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 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.

Publications

Product cited in:	Xu, Tang, Li, Shi, Chen, Liang: "Positional and expressive alteration of prohibitin during the induced differentiation of human hepatocarcinoma SMMC-7721 cells." in: **World journal of gastroenterology**, Vol. 14, Issue 32, pp. 5008-14, (2008) (PubMed).

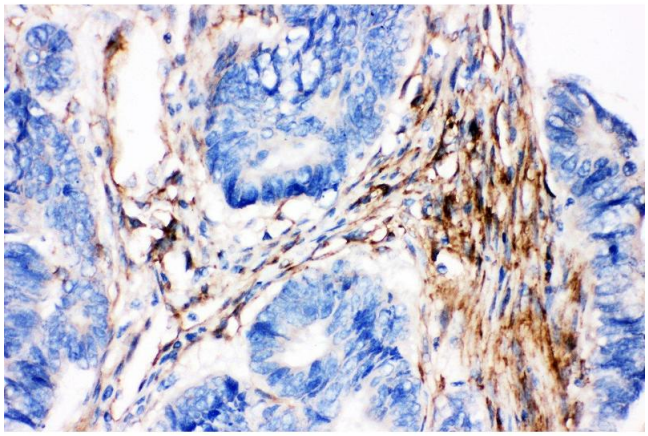


Western Blotting

Image 1.

Western Blotting

Image 2. Anti- Caveolin-2 picoband antibody, Western blotting All lanes: Anti Caveolin-2 at 0.5ug/ml WB: Recombinant Human Caveolin-2 Protein 0.5ng Predicted bind size: 40KD Observed bind size: 40KD



Immunohistochemistry

Image 3. Anti- Caveolin-2 picoband antibody,IHC(P) IHC(P): Human Intestinal Cancer Tissue