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Datasheet for ABIN3042683

## anti-Caveolin 2 antibody (N-Term)

4 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	Caveolin 2 (CAV2)
Binding Specificity:	AA 1-17, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caveolin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caveolin-2(CAV2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Caveolin-2(1-17aa MGLETEKADVQLFMDDD), different from the related rat and mouse sequences by one amino acid.
Sequence:	MGLETEKADV QLFMDDD
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

## Product Details

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Characteristics: Rabbit IgG polyclonal antibody for Caveolin-2(CAV2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  
Gene Name: caveolin 2  
Protein Name: Caveolin-2

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Purification: Immunogen affinity purified.

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## Target Details

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Target: Caveolin 2 (CAV2)

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Alternative Name: CAV2 ([CAV2 Products](#))

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Background: 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. Caveolin-1 and caveolin-2 are expressed in neuronal cells. Caveolin-2 was upregulated in response to neuronal cell injury. The CAV2 gene is mapped to 7q31.1-q31.2. The CAV1 gene contains 3 exons, while the human CAV2 gene contains 2 exons. The boundary of the last exon of CAV1 and CAV2 are analogous, suggesting that they arose through gene duplication. The genes encoding murine caveolin-1 and -2 are colocalized within the A2 region of mouse chromosome 6.

Synonyms: CAV antibody|CAV2 antibody|CAV2\_HUMAN antibody|Caveolae protein 20 kD antibody|Caveolin 2 antibody|Caveolin 2 isoform a and b antibody|Caveolin-2 antibody|MGC12294 antibody|OTTHUMP00000025032 antibody|OTTHUMP00000195982 antibody

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UniProt: [P51636](#)

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Pathways: [Regulation of G-Protein Coupled Receptor Protein Signaling, Skeletal Muscle Fiber Development](#)

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## Application Details

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

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## Application Details

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Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

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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 Na <sub>2</sub> HPO <sub>4</sub> , 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

## Publications

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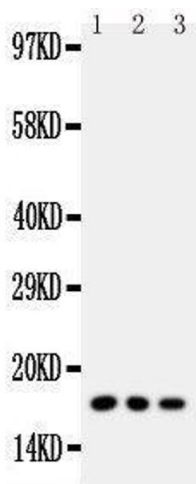
Product cited in:	Zhang, Wu: "Fasudil inhibits proliferation and migration of Hep-2 laryngeal carcinoma cells." in: <b>Drug design, development and therapy</b> , Vol. 12, pp. 373-381, (2018) ( <a href="#">PubMed</a> ).
	Zhou, Wu, Ma, Xiao, Yu, Yang, Xu, Zhang, Zhou, Ye, Wang: "Attenuation of TGFBR2 expression and tumour progression in prostate cancer involve diverse hypoxia-regulated pathways." in: <b>Journal of experimental &amp; clinical cancer research : CR</b> , Vol. 37, Issue 1, pp. 89, (2018) ( <a href="#">PubMed</a> ).
	Schwartz, Bochkariov: "Novel chemiluminescent Western blot blocking and antibody incubation solution for enhanced antibody-antigen interaction and increased specificity." in:

**Electrophoresis**, Vol. 38, Issue 20, pp. 2631-2637, (2017) ([PubMed](#)).

Zuo, Liu, Zhang, Wu, Guo, Liao: "Development of trastuzumab-resistant human gastric carcinoma cell lines and mechanisms of drug resistance." in: **Scientific reports**, Vol. 5, pp. 11634, (2015) ([PubMed](#)).

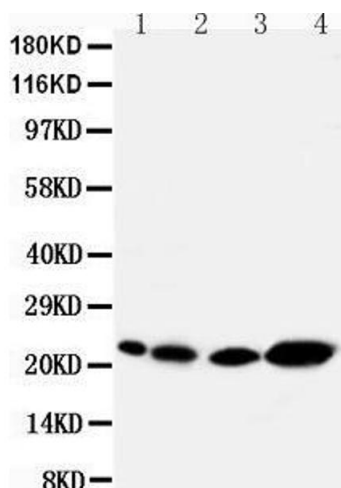
Chen, Bao, Zhou, Wang, Wei, Fan: "Glucose transporter-1 expression in CD133+ laryngeal carcinoma Hep-2 cells." in: **Molecular medicine reports**, Vol. 8, Issue 6, pp. 1695-700, (2013) ([PubMed](#)).

Images



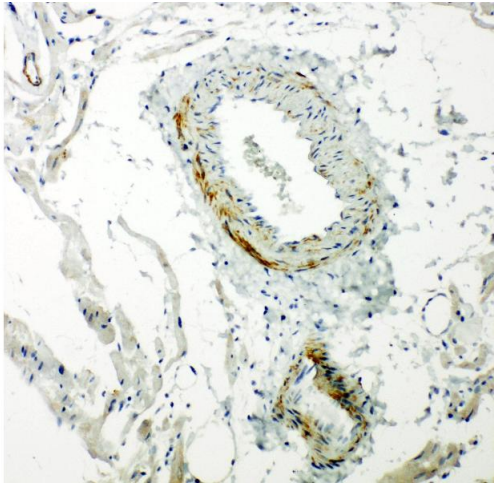
Western Blotting

Image 1.



Western Blotting

Image 2. Anti-Caveolin-2 antibody, Western blotting Lane 1: Rat Heart Tissue Lysate Lane 2: Rat lung Tissue Lysate Lane 3: HELA Cell Lysate Lane 4: A431 Cell Lysate



### Immunohistochemistry

**Image 3.** Anti-Caveolin-2 antibody, IHC(P) IHC(P): Rat Cardiac Muscle Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3042683.