



[Go to Product page](#)

Datasheet for ABIN2792220

anti-Caveolin 2 antibody (N-Term)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Caveolin 2 (CAV2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Rabbit, Sheep, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caveolin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CAV2
Sequence:	LVIPYNEKPE KPAKTQKTSL DEALQWRDSL DKLLQNNYGL ASFKSFLKSE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against CAV2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Caveolin 2 (CAV2)
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Target Details

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

Background: CAV2 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. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Two transcript variants encoding distinct isoforms have been identified for this gene. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by one transcript. 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. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Two transcript variants encoding distinct isoforms have been identified for this gene. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by one transcript.

Alias Symbols: CAV, MGC12294

Protein Interaction Partner: EGFR, PTGS1, CSNK2A1, CAV1, MALL, KCNMA1, UBC, DNAJA1, GOLGB1, NCK1, SRC, RASA1, FLOT2, DRD1, PLD2,

Protein Size: 162

Molecular Weight: 18 kDa

Gene ID: 858

NCBI Accession: [NM_001233](#), [NP_001224](#)

UniProt: [P51636](#)

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

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 162 AA

Restrictions: For Research Use only

Handling

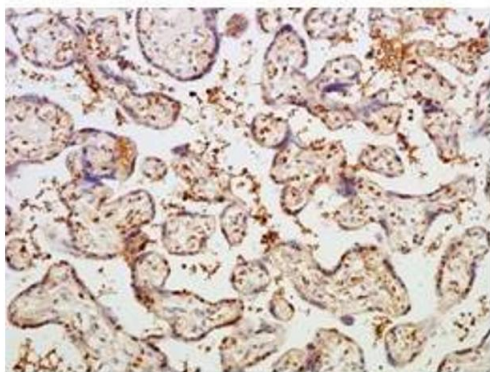
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Tashiro, Sumi, Uozumi, Shimizu, Nakamura: "B-Myb-dependent regulation of c-Myc expression by cytosolic phospholipase A2." in: The Journal of biological chemistry , Vol. 279, Issue 17, pp. 17715-22, (2004) (PubMed).
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Images

CAV2



Brown: CAV2
Purple: Haematoxylin

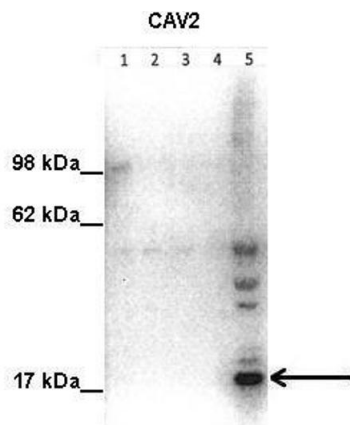
Immunohistochemistry

Image 1. Sample Type : Human placental tissue Primary Antibody Dilution : 1:50 Secondary Antibody : Goat anti rabbit-HRP Secondary Antibody Dilution : 1:10,000 Color/Signal Descriptions : Brown: CAV2 Purple: Haematoxylin Gene Name : CAV2 Submitted by : Dr. Hiten D. Mistry and Anna Czajka, King's College London; Lesia Kurlak, University of Nottingham



Western Blotting

Image 2. WB Suggested Anti-CAV2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Human Lung



Western Blotting

Image 3. Lanes: Lane1: 50 ug human placental tissue lysate Lane2: 40 ug human placental tissue lysate Lane3: 30 ug human placental tissue lysate Lane4: 20 ug human placental tissue lysate Lane5: 20 ug human myometrial tissue lysate Primary Antibody Dilution: 1:500 Secondary Antibody Dilution: 1:10000 Gene Name: Caveolin 2 Submitted by: Hiten Mistry, Ania Czajka and Marta Hentschke Ribeiro, King's College London

See Immunoblot 2 Data and Customer Feedback for more information