Product datasheet

Anti-Caveolin-2/CAV2 Antibody

Catalog Number: *BA2725*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-Caveolin-2/CAV2 Antibody
Gene Name	CAV2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Caveolin-2, different from the related rat and mouse sequences by one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	22 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

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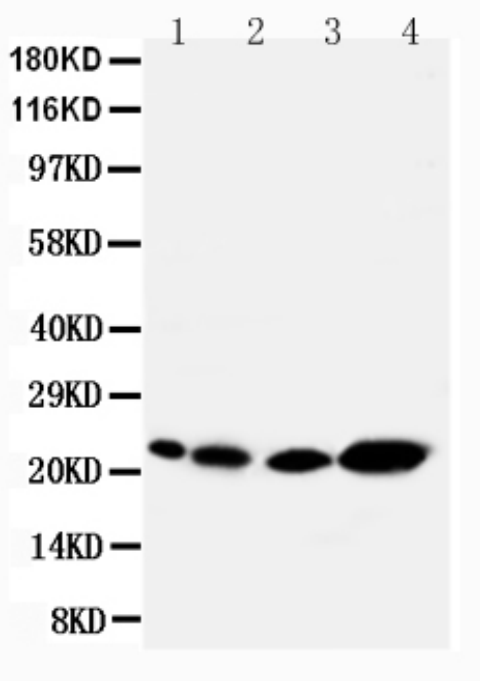
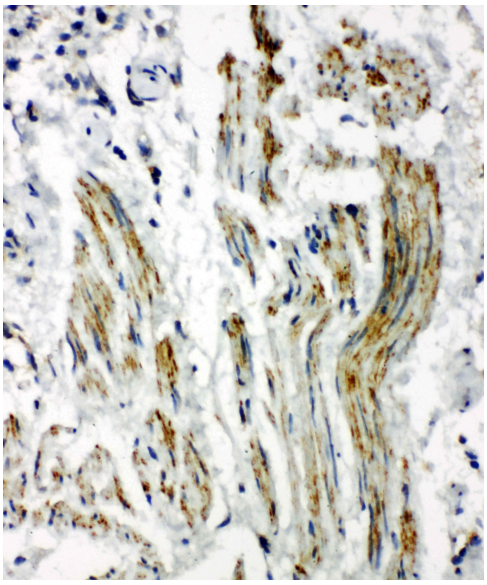
Selected Validation Data



Western blot analysis of Caveolin-2/CAV2 using anti-Caveolin-2/CAV2 antibody (BA2725). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat Heart tissue lysates,
Lane 2: Rat lung tissue lysates,
Lane 3: HELA whole cell lysates,
Lane 4: A431 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caveolin-2/CAV2 antigen affinity purified polyclonal antibody (BA2725) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Caveolin-2/CAV2 at approximately 22 kDa. The expected band size for Caveolin-2/CAV2 is at 18 kDa.



IHC analysis of Caveolin-2/CAV2 using anti-Caveolin-2/CAV2 antibody (BA2725).
Caveolin-2/CAV2 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with rabbit anti-Caveolin-2/CAV2 Antibody (BA2725) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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