Product datasheet

Anti-Caveolin-3/CAV3 Antibody

Catalog Number: *A00990-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Caveolin-3/CAV3 Antibody
Gene Name	CAV3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Caveolin-3/CAV3 recombinant protein (Position: M1-D55).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	17 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 ELISA: 1:100-1000 (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-3 is a protein that in humans is encoded by the CAV3 gene. This gene encodes a caveolin family member, which functions as a component of the caveolae plasma membranes found in most cell types. Caveolin proteins are proposed to be scaffolding proteins for organizing and concentrating certain caveolin-interacting molecules. Mutations identified in this gene lead to interference with protein oligomerization or intra-cellular routing, disrupting caveolae formation and resulting in Limb-Girdle muscular dystrophy type-1C (LGMD-1C), hyperCKemia or rippling muscle disease (RMD). Alternative splicing has been identified for this locus, with inclusion or exclusion of a differentially spliced intron.

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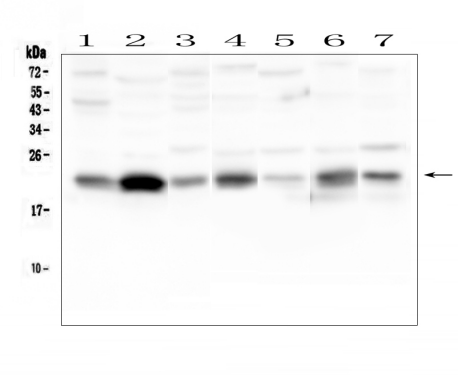
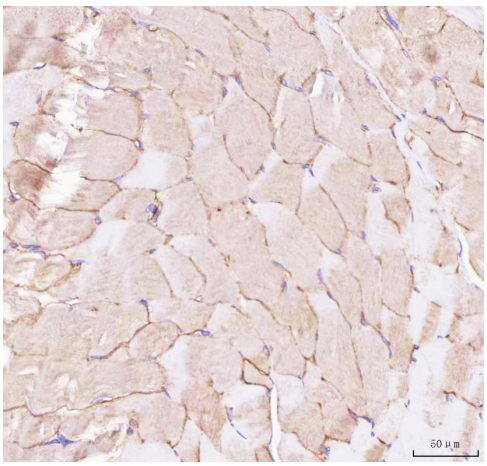
In addition, transcripts utilize multiple polyA sites and contain two potential translation initiation sites.

Selected Validation Data



Western blot analysis of Caveolin-3/CAV3 using anti-Caveolin-3/CAV3 antibody (A00990-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: human U-87MG whole cell lysates,
Lane 3: human Hela whole cell lysates,
Lane 4: rat stomach tissue lysates,
Lane 5: rat testis tissue lysates,
Lane 6: mouse stomach tissue lysates,
Lane 7: mouse testis tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caveolin-3/CAV3 antigen affinity purified polyclonal antibody (A00990-2) 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-3/CAV3 at approximately 17 kDa. The expected band size for Caveolin-3/CAV3 is at 17 kDa.



IHC analysis of Caveolin-3/CAV3 using anti-Caveolin-3/CAV3 antibody (A00990-2).
Caveolin-3/CAV3 was detected in a paraffin-embedded section of human skeletal muscle tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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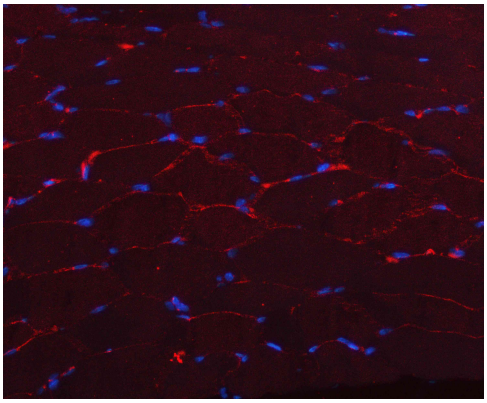

IF analysis of Caveolin-3/CAV3 using anti-Caveolin-3/CAV3 antibody (A00990-2).
Caveolin-3/CAV3 was detected in a paraffin-embedded section of human cardiac muscle tissue. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).