

Basic Information

Product Name	Anti-Caveolin-1/CAV1 Antibody	
Gene Name	CAV1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human Caveolin-1 recombinant protein (Position: G4-I178). Human Caveolin-1 shares 95% and 94% amino acid (aa) sequences identity with mouse and rat Caveolin-1, respectively.	
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
	Immunofluorescence (IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	(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°C as supplied.

Background Information

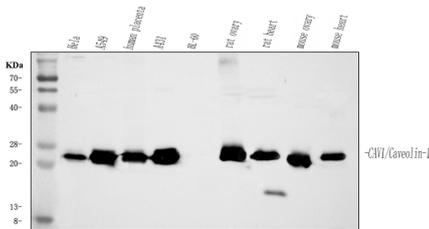
CAV1(Caveolin-1) is a protein that in humans is encoded by the CAV1 gene. The CAV1 gene is mapped to 7q31.2. The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 MAP kinase cascade. CAV1 and CAV2 are located next to each other on chromosome 7 and

express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms(alpha and beta) are encoded by a single transcript from this gene.

Reference

Anti-Caveolin-1/CAV1 Antibody 被引用在4文献中。

Selected Validation Data



Western blot analysis of anti-Caveolin-1/CAV1 antibody (PB9165).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: human placenta tissue lysates,

Lane 4: human A431 whole cell lysates,

Lane 5: human HL-60 whole cell lysates,

Lane 6: rat ovary tissue lysates,

Lane 7: rat heart tissue lysates,

Lane 8: mouse ovary tissue lysates,

Lane 9: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Caveolin-1/CAV1 antigen affinity purified polyclonal antibody (PB9165) and probed

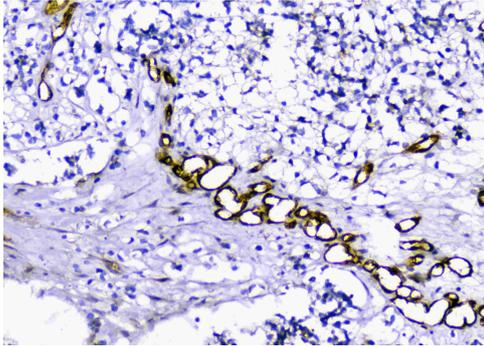
with a goat anti-rabbit IgG-HRP secondary antibody (Catalog #

BA1054). The signal is developed using ECL Plus Western Blotting

Substrate (Catalog # AR1197). A specific band was detected for

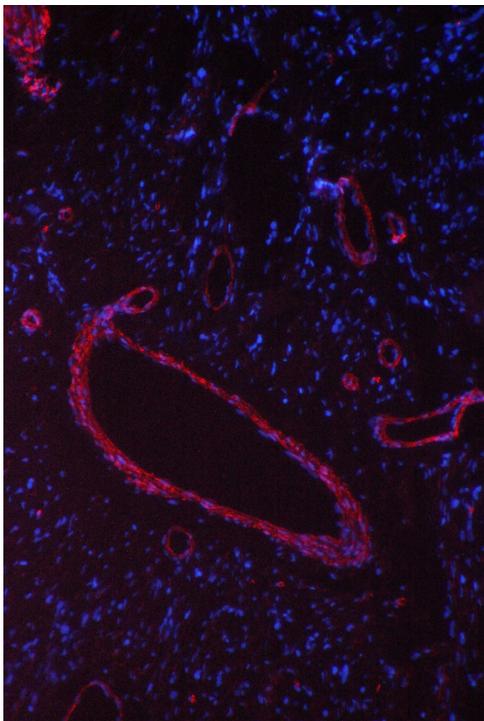
Caveolin-1/CAV1 at approximately 22 kDa. The expected band size

for Caveolin-1/CAV1 is at 20 kDa.



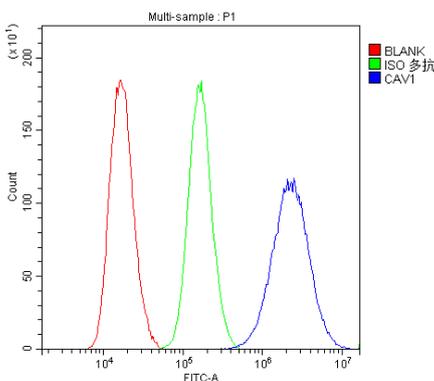
IHC analysis of Caveolin-1/CAV1 using anti-Caveolin-1/CAV1 antibody (PB9165).

Caveolin-1/CAV1 was detected in a paraffin-embedded section of human glioma tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of Caveolin-1/CAV1 using anti-Caveolin-1/CAV1 antibody (PB9165).

Caveolin-1/CAV1 was detected in a paraffin-embedded section of human glioma 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).



Flow Cytometry analysis of U87 cells using anti-Caveolin-1/CAV1 antibody (PB9165).

Overlay histogram showing U87 cells stained with PB9165 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Caveolin-1/CAV1 Antibody (PB9165, 1:100). Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the

Product datasheet

Anti-Caveolin-1/CAV1 Antibody

Catalog Number: **PB9165**

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BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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same conditions. Unlabelled sample (Red line) was also used as a control.