

Basic Information

Product Name	Anti-Caveolin-1/CAV1 Antibody (Clone#12C7)	
Gene Name	CAV1	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2a	
Species Reactivity	human	
Tested Application	IF, WB, IHC	
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) sequence identity with mouse and rat Caveolin-1, respectively.	
Concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	22 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 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°C as supplied.

Background Information

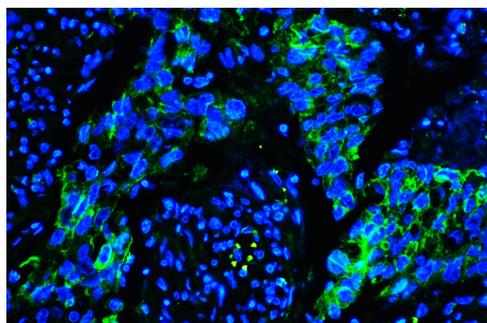
CAV1(Caveolin-1) is a protein that in humans is encoded by the CAV1 gene. The CAV1 gene is mapped to 7q31.2. The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an 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.

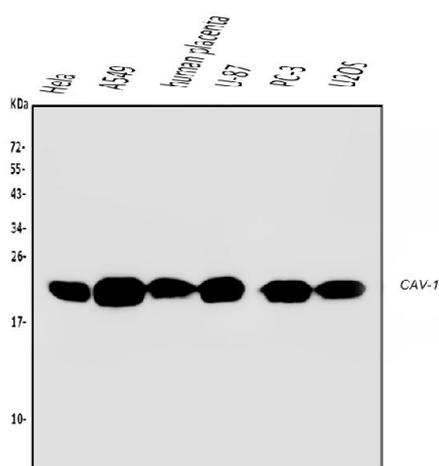
Reference

Anti-Caveolin-1/CAV1 Antibody (Clone#12C7)被引用在2文献中。

Selected Validation Data



IF analysis using Anti-CAV1 antibody (M00179-1) detected in paraffin-embedded section of human lung cancer tissue. The tissue section were stained using the Fluoro488 Anti-Mouse IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).



Western blot analysis of Caveolin-1/CAV1 using anti-Caveolin-1/CAV1 antibody (M00179-1). 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 U-87 whole cell lysates,
Lane 5: human PC-3 whole cell lysates,
Lane 6: human U2OS whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Caveolin-1/CAV1 antigen affinity purified monoclonal antibody (M00179-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). 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.

Product datasheet

**Anti-Caveolin-1/CAV1 Antibody
(Clone#12C7)**

Catalog Number: M00179-1

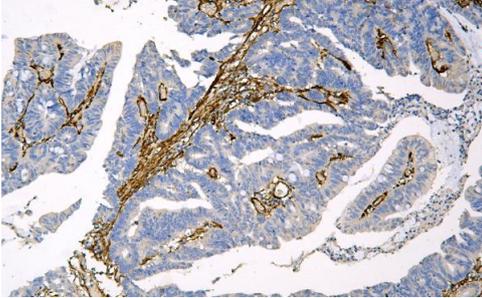
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IHC analysis of Caveolin-1/CAV1 using anti-Caveolin-1/CAV1 antibody (M00179-1).

Caveolin-1/CAV1 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-Caveolin-1/CAV1 Antibody (M00179-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.