

32-6054: Mouse Anti Human Caveolin-1(Clone: PAT4C1AT.)

Clonality :	Monoclonal
Clone Name :	PAT4C1AT.
Application :	ELISA, WB
Gene :	CAV1
Gene ID :	857
Uniprot ID :	Q03135
Format :	Purified
Alternative Name :	Caveolin-1, CAV1, CAV, CGL3, BSCL3, VIP21, MSTP085.
Isotype :	Mouse IgG2b heavy chain and k light chain.
Immunogen Information :	Anti-human CAV1 mAb, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with recombinant human CAV1 amino acids 1-104 purified from E. coli.

Description

The scaffolding protein encoded by the CAV1 gene is the key component of the caveolae plasma membranes found in most cell types. Cholesterol is vital for caveolae formation and maintenance, and caveolae structure is highly sensitive to cholesterol depletion or treatment with cholesterol binding drugs. CAV1 can tightly and specifically bind free cholesterol and artificial cholesterol containing vesicles. Caveolin 1 links integrin subunits to the tyrosine kinase FYN, which is an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. CAV1 is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase. Caveolin 1 and caveolin 2 are positioned next to each other on chromosome 7 and express co-localizing proteins which form a stable hetero-oligomeric complex cascade. Mutations in the CAV1 gene are linked to Berardinelli-Seip congenital lipodystrophy.

Product Info

Amount :	20 µg
Purification :	CAV1 antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

CAV1 antibody has been tested by ELISA, Western blot to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:250 ~ 1000. Recommended starting dilution is 1:500.