

Anti-CAV1 Antibody (8N14)

Product Details

Ig Type:	mIgG2a
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	8N14
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in:PC-3 whole cell lysate (20µg), A549 whole cell lysate (20µg), U251 whole cell lysate (20µg), Hela whole cell lysate (20µg), MCF-7 whole cell lysate (20µg), HEK293 whole cell lysate (20µg), Mouse Heart tissue lysate (20µg), Rat Heart tissue lysate (20µg)-All lanes: CAV1 antibody at 1:500-Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution-Predicted band size:20 kDa-Observed band size:20 kDa-Exposure time:120s <p>2. Overlay Peak curve showing Hela cells stained with TMAH-00147 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was mouse IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.</p>
Application:	ELISA, WB, FCM
Recommended	WB:1:500-1:2000; FCM:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CAV1 Protein
Antigen Species:	Human
Gene ID:	857
Uniprot ID:	Q03135
Synonyms:	PPH3;VIP21;caveolin 1 alpha isoform;caveolae protein, 22 kD;CAV 1;cell growth-inhibiting protein 32;BSCL3;CAV;MSTP085;Caveolin-1;Caveolin1;CGL3;VIP 21;Caveolin 1 caveolae protein 22kDa;OTTHUMP00000025031;caveolin 1 beta isoform;LCCNS
Biology Area:	Cancer, Cardiovascular, Tags & Cell Markers, Metabolism, Signal transduction

Research Background

May act as a scaffolding protein within caveolar membranes. Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway. Negatively regulates TGF β 1-mediated activation of SMAD2/3 by mediating the internalization of TGF β R1 from membrane rafts leading to its subsequent degradation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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