

## Anti-CAV1 Antibody (2M160)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2M160
Purification:	Affinity-chromatography

### Applications

	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in: THP-1 whole cell lysate</li><li>-All lanes: Caveolin-1 antibody at 1:1000</li><li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li><li>-Predicted band size: 20 kDa</li><li>-Observed band size: 20 kDa</li></ul>
Verified Activity:	<p>2. Overlay Peak curve showing Hela cells stained with TMAH-00146 (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 (<math>1\mu\text{g}/1*10^6</math> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (<math>1\mu\text{g}/1*10^6</math> cells) used under the same conditions. Acquisition of &gt;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:	A synthetic peptide: Human CAV1
Antigen Species:	Human
Gene ID:	857
Uniprot ID:	Q03135
Synonyms:	Caveolin-1;CAV 1;CAV
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)

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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 TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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