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Biosciences

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# P-Caveolin-1 (Y14) Rabbit mAb [p3D9]

Cat NO. :A21504

## Information:

| Applications | Reactivity: | UniProt ID: | MW(kDa) | Host | Isotype | Size |
|---|---|---|---|---|---|---|
| WB | Human | Q03135 | 23kDa | Rabbit | IgG | 50ul,100ul,200ul |

## Applications detail:

| Application | Dilution |
|---|---|
| WB | 1:1000-2000 |

The optimal dilutions should be determined by the end user

## Conjugate:

UnConjugate

## Form:

Liquid

## sensitivity:

Endogenous

## Purification:

Affinity-chromatography

## Specificity:

Antibody is produced by immunizing animals with A synthesized peptide derived from human Phospho-Caveolin-1 (Y14)

## Storage buffer and conditions:

Antibody store in 10 mM PBS, 0.5mg/ml BSA, 50% glycerol（buffer）.

Shipped at 4°C. Store at-20°C or -80°C.

Products are valid for one natural year of receipt.Avoid repeated freeze / thaw cycles.

## Tissue specificity:

Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Expressed in the brain..

## Subcellular location:

Golgi apparatus membrane,Peripheral membrane protein. Cell membrane,Peripheral membrane protein. Membrane, caveola,Peripheral membrane protein. Membrane raft. Golgi apparatus, trans-Golgi network.

## Function:

**Introduction:** **WB:** Western Blot **IP:** Immunoprecipitation **IHC:** Immunohistochemistry **ChIP:** Chromatin Immunoprecipitation **ICC/IF:** Immunocytochemistry/ Immunofluorescence **F:** Flow Cytometry

**Cross Reactivity:** **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Hr:** horse

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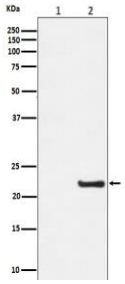
May act as a scaffolding protein within caveolar membranes (PubMed:11751885). Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae (PubMed:19262564). Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). 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 (PubMed:17287217). Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway (By similarity). Negatively regulates TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation (PubMed:25893292)..

## Validation Data：

### P-Caveolin-1 (Y14) Rabbit mAb [p3D9] Images




Western blot（SDS PAGE） analysis of extracts from (1) HeLa cell lysate; (2) HeLa cell treated with pervanadate.Using P-Caveolin-1 (Y14) Rabbit mAb [p3D9]at dilution of 1:1000 incubated at 4℃ over night.

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**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 1% w/v Milk, 1X TBST at 4°C overnight.