

**Goat anti-Caveolin 1, Biotinylated Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF4386a

**Specification**

**Goat anti-Caveolin 1, Biotinylated Antibody - Product Information**

Application	WB, ICC, Pep-ELISA
Primary Accession	<a href="#">Q03135</a>
Other Accession	<a href="#">NP_001744.2</a> , <a href="#">NP_001166366.1</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	20472

**Goat anti-Caveolin 1, Biotinylated Antibody - Additional Information**

**Gene ID 857**

**Other Names**

CAV1; caveolin 1; BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21; caveolin 1, caveolae protein, 22kDa; cell growth-inhibiting protein 32

**Dilution**

WB~~1:1000  
ICC~~N/A  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

This antibody is expected to recognize both reported isoforms (NP\_001744.2; NP\_001166366.1). Reported variants represent identical protein: NP\_001166367.1, NP\_001166368.1, NP\_001166366.1. No cross-reactivity expected to Caveolin 2 and Caveolin 3

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-Caveolin 1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-Caveolin 1, Biotinylated Antibody - Protein Information**

**Name CAV1**

## Synonyms CAV

### Function

May act as a scaffolding protein within caveolar membranes (PubMed:<a href="http://www.uniprot.org/citations/11751885" target="\_blank">11751885</a>). 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:<a href="http://www.uniprot.org/citations/19262564" target="\_blank">19262564</a>). 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:<a href="http://www.uniprot.org/citations/17287217" target="\_blank">17287217</a>). 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 TGFB1 from membrane rafts leading to its subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/25893292" target="\_blank">25893292</a>). Binds 20(S)-hydroxycholesterol (20(S)-OHC) (By similarity).

### Cellular Location

Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Membrane raft. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:P33724} Note=Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae

### Tissue Location

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

## Goat anti-Caveolin 1, Biotinylated Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Goat anti-Caveolin 1, Biotinylated Antibody - Images