

CAV2 / Caveolin 2 Antibody

Goat Polyclonal Antibody Catalog # ALS16509

Specification

CAV2 / Caveolin 2 Antibody - Product Information

Application IHC, WB Primary Accession P51636

Reactivity Human, Mouse, Dog

Host Goat
Clonality Polyclonal
Calculated MW 18kDa KDa

CAV2 / Caveolin 2 Antibody - Additional Information

Gene ID 858

Other Names Caveolin-2, CAV2

Target/Specificity

Detects a band of approximately 20 kDa by Western blot in HaCat cell lysate and 45 kDa CAV2-GFP transfected cell lysate. This Ab does not recognize CAV1.

Reconstitution & Storage

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Precautions

CAV2 / Caveolin 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CAV2 / Caveolin 2 Antibody - Protein Information

Name CAV2

Function

May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Acts as an accessory protein in conjunction with CAV1 in targeting to lipid rafts and driving caveolae formation. The Ser-36 phosphorylated form has a role in modulating mitosis in endothelial cells. Positive regulator of cellular mitogenesis of the MAPK signaling pathway. Required for the insulin-stimulated nuclear translocation and activation of MAPK1 and STAT3, and the subsequent regulation of cell cycle progression (By similarity).

Cellular Location

Nucleus. Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Note=Potential hairpin-like structure in the membrane. Membrane protein of caveolae Tyr-19-phosphorylated form



is enriched at sites of cell-cell contact and is translocated to the nucleus in complex with MAPK1 in response to insulin (By similarity). Tyr-27-phosphorylated form is located both in the cytoplasm and plasma membrane. CAV1-mediated Ser-23-phosphorylated form locates to the plasma membrane. Ser-36-phosphorylated form resides in intracellular compartments.

Tissue Location

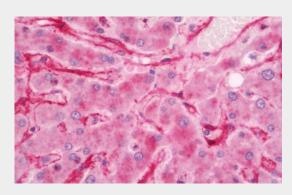
Expressed in endothelial cells, smooth muscle cells, skeletal myoblasts and fibroblasts

CAV2 / Caveolin 2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CAV2 / Caveolin 2 Antibody - Images

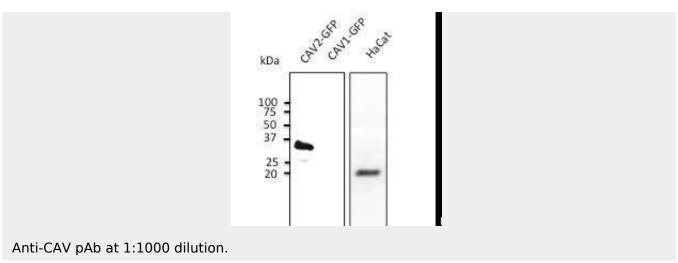


Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)





CAV2 / Caveolin 2 Antibody - Background

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