10320 Camino Santa Fe, Suite G
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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.

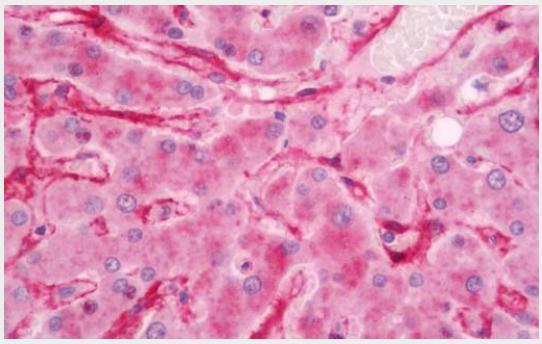
Tissue Location
Expressed in endothelial cells, smooth muscle cells, skeletal myoblasts and fibroblasts

CAV2 / Caveolin 2 Antibody - Protocols

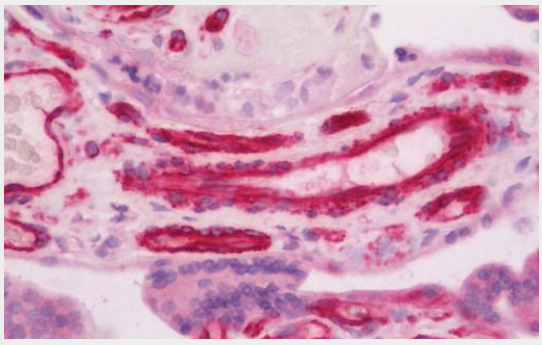
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CAV2 / Caveolin 2 Antibody - Images



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



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

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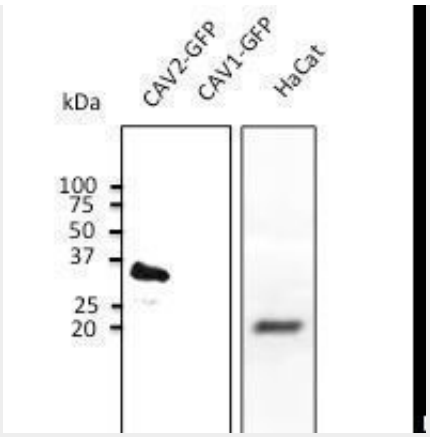

Anti-CAV pAb at 1:1000 dilution.

CAV2 / Caveolin 2 Antibody - Background

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