

**Caveolin-2 Antibody**  
**Rabbit mAb**  
**Catalog # AP90077****Specification**

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**Caveolin-2 Antibody - Product Information**

Application	WB, IHC, ICC, IP
Primary Accession	<a href="#">P51636</a>
Clonality	Monoclonal
<b>Other Names</b>	
CAV2; Caveolae protein 20 Kd; Caveolin 2; Caveolin 2 isoform a and b; Caveolin-2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	18291 Da

**Caveolin-2 Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Caveolin-2
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**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.

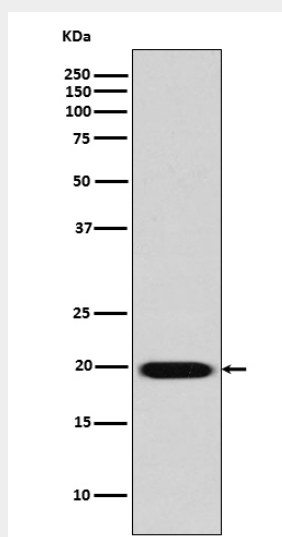
**Tissue Location**

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

**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 Cytometry](#)
- [Cell Culture](#)

**Caveolin-2 Antibody - Images**

Western blot analysis of Caveolin 2 expression in HeLa cell lysate.