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Anti-Caveolin 2 Antibody

Rabbit polyclonal antibody to Caveolin 2
Catalog # AP60904

Product Information

Application	WB
Primary Accession	P51636
Other Accession	Q9WVC3
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18291

Additional Information

Gene ID	858
Other Names	Caveolin-2
Target/Specificity	Recognizes endogenous levels of Caveolin 2 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

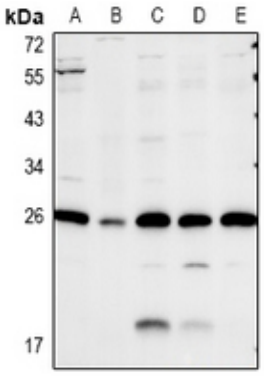
Name	CAV2
Function	May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Acts as an accessory protein in conjunction with CAV1 in targeting to lipid rafts and driving caveolae formation. The Ser-36 phosphorylated 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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Caveolin 2. The exact sequence is proprietary.

Images



Western blot analysis of Caveolin 2 expression in CT26 (A), rat kidney (B), A549 (C), COS7 (D), Hela (E) whole cell lysates.