

Recombinant Human Caveolin-2 protein ab114515

画像数 1

製品の詳細

製品名	Recombinant Human Caveolin-2 protein
発現系	Wheat germ
アクセッション番号	P51636
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MGLETEKADVQLFMDDDSYSHHSGLEYADPEKFADSDQDRDP HRLNSHLK LGFEDVIAEPVTTHSFDKVVICSHALFEISKYVMYKFLTVFL AIPLAFIA GILFATLSCLHIWILMPFVKTCMLVLPVQTIWKSVTDVIIA PLCTSVGR CFSSVSLQLSQD
予測される分子量	44 kDa including tags
領域	1 to 162

特性

Our **Abpromise guarantee** covers the use of **ab114515** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	ELISA
	SDS-PAGE
	Western blot
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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関連情報

機能

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.

組織特異性

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

配列類似性

Belongs to the caveolin family.

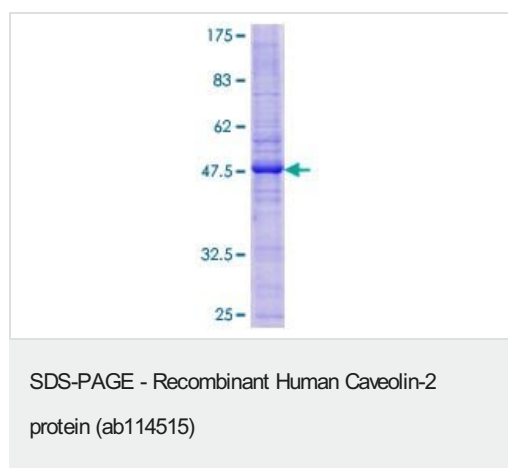
翻訳後修飾

Phosphorylated on serine and tyrosine residues. CAV1 promotes phosphorylation on Ser-23 which then targets the complex to the plasma membrane, lipid rafts and caveolae. Phosphorylation on Ser-36 appears to modulate mitosis in endothelial cells (By similarity). Phosphorylation on both Tyr-19 and Tyr-27 is required for insulin-induced 'Ser-727' phosphorylation of STAT3 and its activation. Phosphorylation on Tyr-19 is required for insulin-induced phosphorylation of MAPK1 and DNA binding of STAT3. Tyrosine phosphorylation is induced by both EGF and insulin.

細胞内局在

Nucleus. Cytoplasm. Golgi apparatus membrane. Cell membrane. Membrane > caveola. 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.

画像



ab114515 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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