abcam

Product datasheet

Anti-Caveolin-2 (phospho Y19) antibody ab3417

4 Abreviews 9 References 画像数 3

製品の概要

製品名	Anti-Caveolin-2 (phospho Y19) antibody
製品の詳細	Rabbit polyclonal to Caveolin-2 (phospho Y19)
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, IHC-P
種交差性	**交差種:** Human **交差が予測される動物種:** Rabbit
免疫原	Synthetic peptide corresponding to Mouse Caveolin-2 aa 1-100 (phospho Y19). Run BLAST with Run BLAST with
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab3417の使用に適用されます

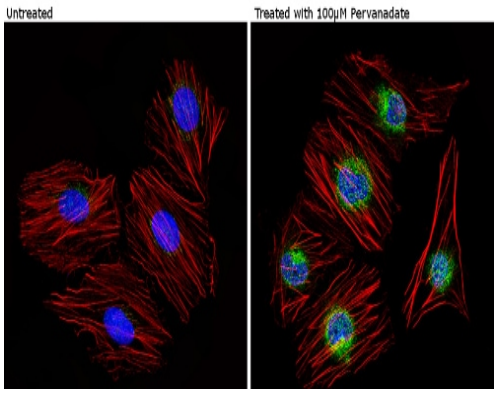
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	⭐⭐⭐⭐⭐ (1)	1/10 - 1/100.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

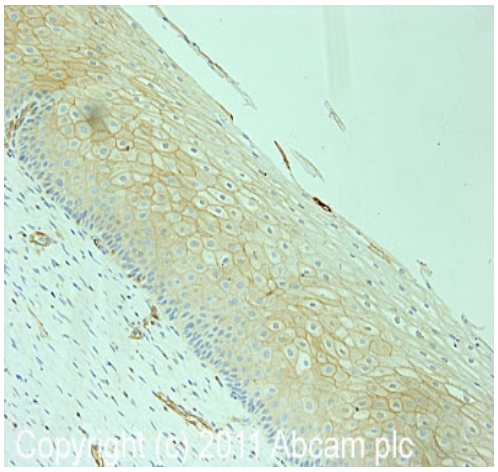
機能	May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Acts as an accessory protein in conjunction with CAV1 in targeting to lipid rafts and driving caveolae formation. The Ser-36 phosphorylated form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



Immunocytochemistry/ Immunofluorescence - Anti-Caveolin-2 (phospho Y19) antibody (ab3417)

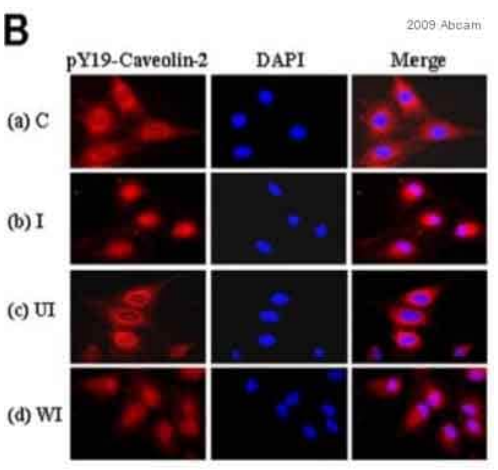
Immunocytochemistry/Immunofluorescence analysis of Phospho-Caveolin-2 pTyr19 (green) showing staining in the cytoplasm and nucleus of HUVEC cells treated with 100µM pervanadate (left) and untreated HUVEC cells (right). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with ab3417 in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4ºC in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caveolin-2 (phospho Y19) antibody (ab3417)

IHC image of ab3417 staining in human normal cervix formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab3417, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-Caveolin-2 (phospho Y19) antibody (ab3417)

Image courtesy of Y Pak by Abreview.

ab3417 at a 1/250 dilution staining Caveolin-2 in rat fibroblasts by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde, permeabilized with Triton X-100 and blocked using 1% BSA. The secondary used was a TRITC conjugated anti-rabbit at a 1/100 dilution.(a) Control cells untreated cells (b) 100nM Insulin for 10 min (c) 10uM U0126 for 2 hr and 100nM Insulin for 10 min (d) 100 nM Wortmannin for 1hr and 100nM Insulin for 10 min

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