


Anti-Caveolin-2 antibody [EPR5471] ab133484

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **4 References** 画像数 3

製品の概要

| | |
|--------------|--|
| 製品名 | Anti-Caveolin-2 antibody [EPR5471] |
| 製品の詳細 | Rabbit monoclonal [EPR5471] to Caveolin-2 |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: WB, ICC/IF 適用なし: Flow Cyt, IHC-P or IP |
| 種交差性 | 交差種: Mouse, Human 交差が予測される動物種: Rat  |
| 免疫原 | Synthetic peptide within Human Caveolin-2 (C terminal). The exact sequence is proprietary. Database link: P51636 |
| ポジティブ・コントロール | HUVEC, HeLa, 3T3-L1, and U87-MG cell lysates. |
| 特記事項 | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . |

製品の特性

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|-------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| バッファー | pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant |
| 精製度 | Tissue culture supernatant |
| ポリ/モノ | モノクローナル |

| | |
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| クローン名 | EPR5471 |
| 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ab133484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確認ください。

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| WB | ★★★★☆ (1) | 1/1000 - 1/10000. Predicted molecular weight: 18 kDa. |
| ICC/IF | | 1/50. |

追加情報 Is unsuitable for Flow Cyt.IHC-P or IP.

ターゲット情報

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| 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. |
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| | |
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| 組織特異性 | Expressed in endothelial cells, smooth muscle cells, skeletal myoblasts and fibroblasts. |
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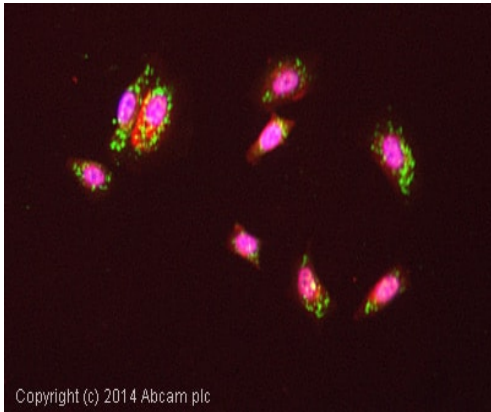
配列類似性 Belongs to the caveolin family.

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.

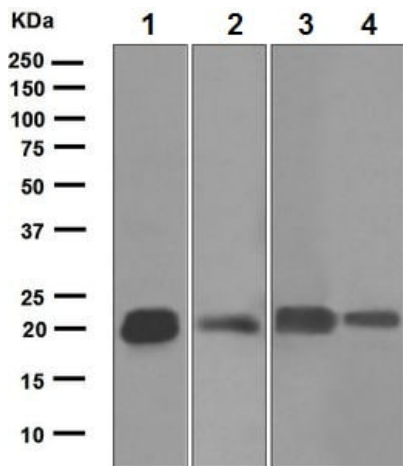
画像



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Immunocytochemistry/ Immunofluorescence - Anti-Caveolin-2 antibody [EPR5471] (ab133484)

ab133484 stained MCF cells. The cells were 4% formaldehyde fixed for 10 minutes at room temperature and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab133484 at 1/100 dilution) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150081**) used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Western blot - Anti-Caveolin-2 antibody [EPR5471] (ab133484)

All lanes : Anti-Caveolin-2 antibody [EPR5471] (ab133484) at 1/1000 dilution

Lane 1 : HUVEC cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : 3T3-L1 cell lysate

Lane 4 : U87-MG cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 18 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Caveolin-2 antibody [EPR5471] (ab133484)

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