abcam

Product datasheet

Anti-PDGFR alpha + Beta (phospho Y572 + Y574) antibody ab5443

4 References 2 图像

概述

产品名称	Anti-PDGFR alpha + Beta (phospho Y572 + Y574)**抗体**
描述	**兔多克隆抗体**to PDGFR alpha + Beta (phospho Y572 + Y574)
宿主	Rabbit
经测试应用	**适用于:** ICC, WB
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat, Xenopus laevis
免疫原	Synthetic peptide corresponding to Human PDGFR alpha + Beta aa 550-650 (phospho Y572 + Y574). This corresponds to Tyrosine 579 and 581 of Human PDGFR beta. The sequence is conserved in PDGFR alpha mouse, rat and frog.
阳性对照	WB: NIH/3T3 cells +/- PDGF; ICC: MCF7 cells treated with PDGF .
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA BSA is IgG and protease free
纯度	Immunogen affinity purified

纯化说明	The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated PDGFR alpha / beta. The final product is generated by affinity chromatography using a PDGFR alpha derived peptide phosphorylated at Tyrosines 572 and 574.
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab5443**于以下的**经测试应用

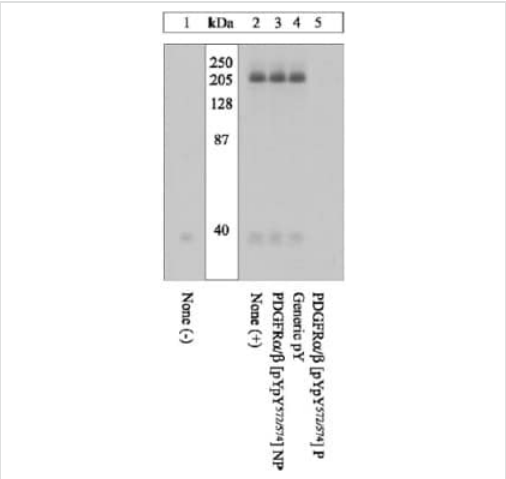
"应用说明"**部分 下显示的**仅为**推荐的起始稀释度**;实际**最佳的稀释度**/**浓度应由使用者检定。**

应用	Ab评论	说明
ICC		1/100 - 1/500.
WB		1/1000. Detects a band of approximately 170 - 185 kDa.

靶标

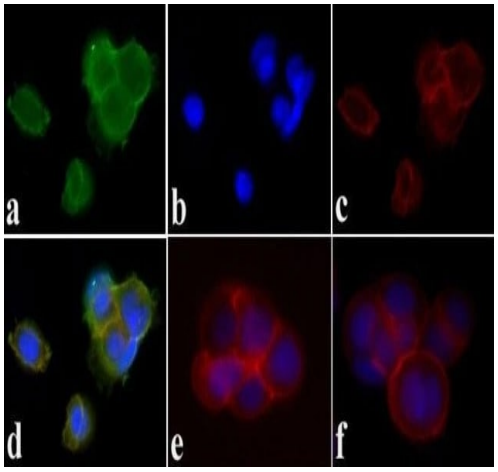
相关性	Platelet derived growth factor receptor (PDGFR) is a transmembrane glycoprotein of 170-185 kDa which undergoes homo- or heterodimerization into complexes of alpha and beta subunits upon ligand binding, depending on the isoform of PDGF (PDGF-AA, -BB or -AB) that binds. The phosphorylation of tyrosine residues in the now activated receptor can control multiple signaling events such as actin reorganization, transcription, cell growth, migration and differentiation. PDGFR alpha tyrosines 572 and 574 (579 and 581 in PDGFR beta) are autophosphorylated in the activated receptor, and bind and activate Src family kinases.
细胞定位	Membrane; single pass type I membrane protein.

图片



Western blot - Anti-PDGFR alpha + Beta (phospho Y572 + Y574) antibody (ab5443)

Peptide Competition: Extracts prepared from NIH3T3 cells left unstimulated (1) and stimulated with PDGF (2-5) were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer overnight at 4°C, then were incubated with 0.50 µg/mL ab5443 antibody for two hours at room temperature in a 1% BSA-TBST buffer, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the immunogen (3), a generic phosphotyrosine containing peptide (4), or, the phosphopeptide immunogen (5). After washing, membranes were incubated with goat F(ab')2 anti-rabbit IgG alkaline phosphatase and bands were detected using the Tropix WesternStar method. The data show that only the peptide corresponding to ab5443 blocks the antibody signal, thereby demonstrating the specificity of the antibody. Peptide Competition: Extracts prepared from NIH3T3 cells left unstimulated (1) and stimulated with PDGF



Immunocytochemistry - Anti-PDGFR alpha + Beta (phospho Y572 + Y574) antibody (ab5443)

Immunocytochemistry analysis of 70% confluent log phase MCF7 cells treated with PDGF (50 ng/mL for 10 min) labeling PDGFR alpha + Beta (phospho Y572 + Y574) with ab5443. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with ab5443 at 2 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor® 488 Goat Anti-Rabbit IgG Secondary Antibody at a dilution of 1/400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor® 594 Phalloidin. Panel d is a merged image showing cytoplasmic and membrane localization. Panel e shows untreated cells. Panel f shows no primary antibody control. The images were captured at 20X magnification.

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

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