


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

[4 References](#) [画像数 2](#)

製品の概要

製品名	Anti-PDGFR alpha + Beta (phospho Y572 + Y574) antibody
製品の詳細	Rabbit polyclonal to PDGFR alpha + Beta (phospho Y572 + Y574)
由来種	Rabbit
アプリケーション	適用あり: ICC, WB
種交差性	交差種: Mouse, Human 交差が予測される動物種: 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.
ポジティブ・コントロール	WB: NIH/3T3 cells +/- PDGF; ICC: MCF7 cells treated with PDGF .
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA BSA is IgG and protease free
精製度	Immunogen affinity purified

特記事項 (精製)

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.

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ab5443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
ICC		1/100 - 1/500.
WB		1/1000. Detects a band of approximately 170 - 185 kDa.

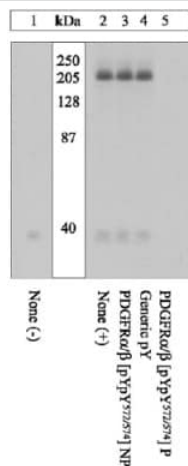
ターゲット情報**関連性**

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.

細胞内局在

Membrane; single pass type I membrane protein.

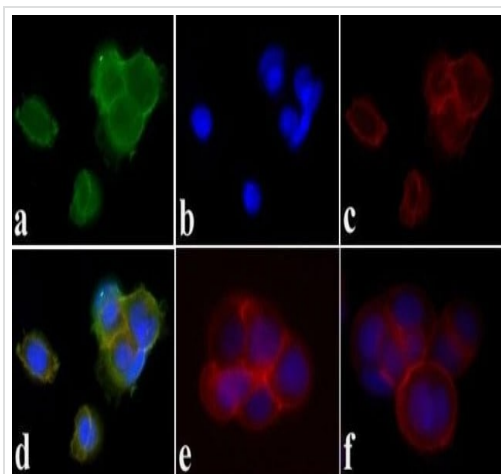
画像



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.

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