# abcam

## Product datasheet

# Anti-PDGFR alpha (phospho Y742) antibody ab5452

**1 Abreviews**   **6 References**   **1 Image**

## Overview

| | |
|---|---|
| **Product name** | Anti-PDGFR alpha (phospho Y742) antibody |
| **Description** | Rabbit polyclonal to PDGFR alpha (phospho Y742) |
| **Host species** | Rabbit |
| **Specificity** | PDGFR beta (50% homologous) has not been tested, but is not expected to react. |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Mouse |
| | **Predicted to work with:** Rat, Human, Xenopus laevis |
| **Immunogen** | Synthetic peptide corresponding to Human PDGFR alpha (phospho Y742). |
| **Positive control** | NIH3T3 cells +/- PDGF. |
| **General notes** | 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 |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| **Storage buffer** | pH: 7.3<br>Preservative: 0.05% Sodium azide<br>Constituents: PBS, 0.1% BSA<br><br>BSA is IgG and protease free |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | 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. The final product is generated by affinity chromatography using a PDGFR alpha derived |

peptide phosphorylated at Tyrosine 742.

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|---|---|
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee**    Our **Abpromise guarantee** covers the use of ab5452 in the following tested applications.

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

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | Use a concentration of 0.35 - 1 µg/ml. Detects a band of approximately 170-185 kDa. |

## Target

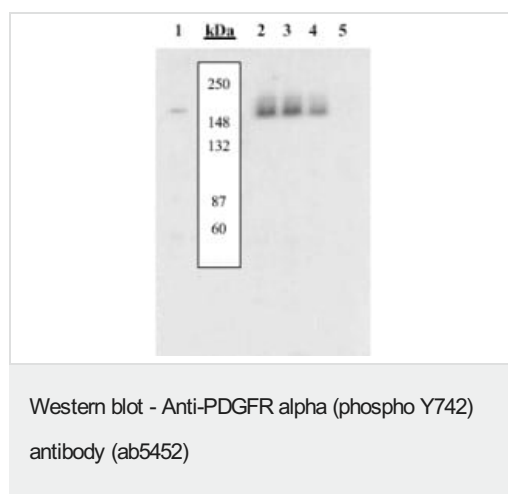| | |
|---|---|
| **Function** | Receptor that binds both PDGFA and PDGFB and has a tyrosine-protein kinase activity. |
| **Tissue specificity** | Expressed in primary and metastatic colon tumors and in normal colon tissue. Tumors may express a different isoform to that found in normal tissue. |
| **Involvement in disease** | Note=A chromosomal aberration involving PDGFRA is found in some cases of hypereosinophilic syndrome. Interstitial chromosomal deletion del(4)(q12q12) causes the fusion of FIP1L1 and PDGFRA (FIP1L1-PDGFRA). |
| **Sequence similarities** | Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.<br>Contains 5 Ig-like C2-type (immunoglobulin-like) domains.<br>Contains 1 protein kinase domain. |
| **Cellular localization** | Membrane. |

## Images



Western blot - Anti-PDGFR alpha (phospho Y742) antibody (ab5452)

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 ab5452 antibody for two hours at room temperature in a 1% BSA-TBST buffer, following prior incubation with: no peptide (1, 2), the nonphosphopeptide 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 ab5452 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 (2-5)

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

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