

## Product datasheet

# Anti-PDGF Receptor beta (phospho Y740) antibody [EP2135Y] $\alpha$ b81301

Recombinant RabMAB

1 Image

### Overview

<b>Product name</b>	Anti-PDGF Receptor beta (phospho Y740) antibody [EP2135Y]
<b>Description</b>	Rabbit monoclonal [EP2135Y] to PDGF Receptor beta (phospho Y740)
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody detects PDGF Receptor beta phosphorylated at Tyrosine 740.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	A phospho specific peptide corresponding to residues surrounding Tyrosine 740 of Human PDGF Receptor beta.
<b>Positive control</b>	NIH 3T3 cell lysates.
<b>General notes</b>	Human: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.  Our RabMAB <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMab<sup>®</sup> patents</a>  This product is a recombinant rabbit monoclonal antibody.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP2135Y
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab81301** 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		1/1000 - 1/2000. Detects a band of approximately 190 kDa (predicted molecular weight: 124 kDa).
ICC/IF		1/100 - 1/250.
<b>Application notes</b>		Is unsuitable for IHC-P.

## Target

### Function

Receptor that binds specifically to PDGFB and PDGFD and has a tyrosine-protein kinase activity. Phosphorylates Tyr residues at the C-terminus of PTPN11 creating a binding site for the SH2 domain of GRB2.

### Involvement in disease

Note=A chromosomal aberration involving PDGFRB is found in a form of chronic myelomonocytic leukemia (CMML). Translocation t(5;12)(q33;p13) with EVT6/TEL. It is characterized by abnormal clonal myeloid proliferation and by progression to acute myelogenous leukemia (AML).

Note=A chromosomal aberration involving PDGFRB may be a cause of acute myelogenous leukemia. Translocation t(5;14)(q33;q32) with TRIP11. The fusion protein may be involved in clonal evolution of leukemia and eosinophilia.

Note=A chromosomal aberration involving PDGFRB may be a cause of juvenile myelomonocytic leukemia. Translocation t(5;17)(q33;p11.2) with SPECC1.

Defects in PDGFRB are a cause of myeloproliferative disorder chronic with eosinophilia (MPE) [MIM:131440]. A hematologic disorder characterized by malignant eosinophils proliferation.

Note=A chromosomal aberration involving PDGFRB is found in many instances of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;12) with ETV6 on chromosome 12 creating an PDGFRB-ETV6 fusion protein.

Note=A chromosomal aberration involving PDGFRB may be the cause of a myeloproliferative disorder (MBD) associated with eosinophilia. Translocation t(1;5)(q23;q33) that forms a PDE4DIP-PDGFRB fusion protein.

### Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

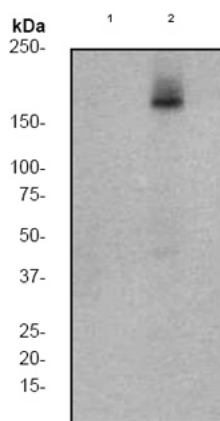
### Post-translational modifications

Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.

### Cellular localization

Membrane.

## Images



Western blot - PDGF Receptor beta (phospho Y740) antibody [EP2135Y] (ab81301)

**All lanes :** Anti-PDGF Receptor beta (phospho Y740) antibody [EP2135Y] (ab81301) at 1/2000 dilution

**Lane 1 :** NIH 3T3 un-treated

**Lane 2 :** NIH 3T3 treated with PDGF

Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size:** 124 kDa

**Observed band size:** 190 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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