Anti-PDGF B antibody ab23914

Overview

**Product name**  
Anti-PDGF B antibody

**Description**  
Rabbit polyclonal to PDGF B

**Host species**  
Rabbit

**Specificity**  
This antibody has been tested against PDGF BB protein (ab9706) and has yet to be tested against endogenous protein.

**Tested applications**  
Suitable for: IHC-Fr, WB, IHC-P

**Species reactivity**  
Reacts with: Mouse, Human  
Predicted to work with: Rat, Cow

**Immunogen**  
Synthetic peptide corresponding to Human PDGF B aa 100-200 conjugated to keyhole limpet haemocyanin.  
(Peptide available as ab24035)

**Positive control**  
PDGF BB protein (ab9706)

Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**  
pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

**Purity**  
Immunogen affinity purified

**Clonality**  
Polyclonal

**Isotype**  
IgG

Applications
Our **Abpromise guarantee** covers the use of **ab23914** in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>4</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td>4</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 14 kDa (predicted molecular weight: 14-18 kDa). The predicted molecular weight of PDGF BB is ~ 27 kDa according to the Swissprot entry P01127, however the reduced form of PDGF BB runs between 14-18 kDa on a gel.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>4</td>
<td>Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
</tbody>
</table>

**Target**

**Images**

ab23914 staining PDGF BB (green) in mouse skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 10 minutes at 25°C; antigen retrieval was by heat mediation in Tris pH 9. Samples were incubated with primary antibody (1/500 in antibody diluent reagent) for 14 hours at 4°C. An Alexa Fluor® 647-conjugated goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. DAPI (blue) - nuclei.
Western blot - Anti-PDGF BB antibody (ab23914)

**All lanes**: Anti-PDGF B antibody (ab23914) at 1 µg/ml

**Lane 1**: Recombinant human PDGF BB protein (ab9706)

**Lane 2**: Recombinant human PDGF BB protein (ab9706) with Human PDGF B peptide (ab24035) at 1 µg

Lysates/proteins at 0.01 µg per lane.

**Secondary**

All lanes: Goat polyclonal to Rabbit IgG (Alexa Fluor® 680) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size**: 14-18 kDa

**Observed band size**: 14 kDa

Why is the actual band size different from the predicted?

ab23914 detects a band of ~ 14 kDa corresponding to the reduced form of recombinant PDGF BB (ab9706). The predicted molecular weight for PDGF BB is 27 kDa according to the Swissprot entry, however the reduced form is known to run at between 14-18 kDa. The 14 kDa band is specifically blocked by the addition of the immunizing peptide, ab 24035.

Image courtesy of Human Protein Atlas

ab23914 staining PDGF BB in Human kidney (male). The paraffin embedded tissue was incubated with ab23914 (1/500 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6. ab23914 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray con
ab23914 staining PDGF BB (green) in Mouse skeletal muscle (gastrocnemius) tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with methacarn and blocked with 10% serum for 10 minutes at 25°C; antigen retrieval was by heat mediation in Tris pH 8. Samples were incubated with primary antibody (1/250 in antibody diluent reagent) for 14 hours at 4°C. An Alexa Fluor® 488-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Red - WGA membranes, Blue - DAPI Nuclei.

Western blot - Anti-PDGF BB antibody (ab23914)

Anti-PDGF B antibody (ab23914) at 1 µg/ml + Recombinant Human PDGF B protein (ab73231) at 0.01 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution
Developed using the ECL technique.
Performed under reducing conditions.

Predicted band size: 14-18 kDa
Exposure time: 1 minute
ab23914 staining PDGF BB in Human skeletal muscle (gastrocnemius) tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 20 minutes at 25°C. Samples were incubated with primary antibody (1/150) for 14 hours at 4°C. An Alexa Fluor® 555-conjugated Goat anti-rabbit IgG polyclonal (1/5000) was used as the secondary antibody.

IHC image of PDGF BB staining in human heart formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab23914, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.com/abpromise or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors