


Product datasheet

Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] ab181845

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [4 References](#) [5 Images](#)

Overview

Product name	Anti-SCDGFB/PDGF-D antibody [EPR7266(2)]
Description	Rabbit monoclonal [EPR7266(2)] to SCDGFB/PDGF-D
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal kidney, fetal heart and small intestine lysate. PC-3 cell lysate. Human squamous cell lung carcinoma tissue. Mouse heart tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7266(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181845 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. Predicted molecular weight: 43 kDa.
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function Potent mitogen for cells of mesenchymal origin. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. It is released by platelets upon wounding and plays an important role in stimulating adjacent cells to grow and thereby heals the wound. Activated by proteolytic cleavage and this active form acts as a specific ligand for beta platelet-derived growth factor receptor. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis.

Tissue specificity Expressed at high levels in the heart, pancreas, adrenal gland and ovary and at low levels in placenta, liver, kidney, prostate, testis, small intestine, spleen and colon. In the kidney, expressed by the visceral epithelial cells of the glomeruli. A widespread expression is also seen in the medial smooth muscle cells of arteries and arterioles, as well as in smooth muscle cells of vasa rectae in the medullary area. Expressed in the adventitial connective tissue surrounding the suprarenal artery. In chronic obstructive nephropathy, a persistent expression is seen in glomerular visceral epithelial cells and vascular smooth muscle cells, as well as de novo expression by periglomerular interstitial cells and by some neointimal cells of arteriosclerotic vessels. Expression in normal prostate is seen preferentially in the mesenchyme of the gland while expression is increased and more profuse in prostate carcinoma. Expressed in many ovarian, lung, renal and brain cancer-derived cell lines.

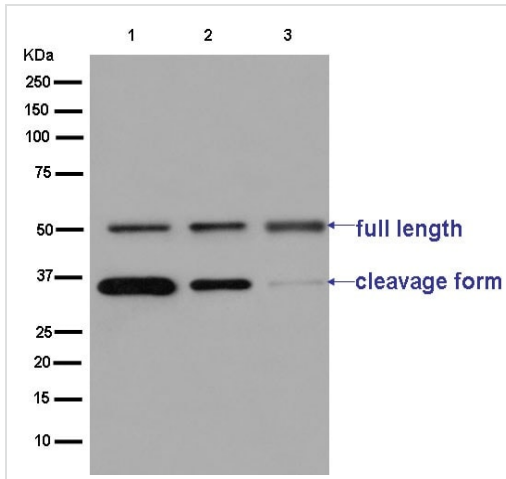
Sequence similarities Belongs to the PDGF/VEGF growth factor family.
Contains 1 CUB domain.

Developmental stage Not detectable in the earliest stages of glomerulogenesis, and not detected in the metanephric blastema or surrounding cortical interstitial cells. In later stages of glomerulogenesis, localized to epithelial cells transitioning from the early developing nephrons of the comma- and S-shaped stages to the visceral epithelial cells of differentiated glomeruli. In the developing pelvis, expressed at the basement membrane of immature collecting ducts and by presumptive fibroblastic cells in the interstitium.

Post-translational modifications Proteolytic removal of the N-terminal CUB domain releasing the core domain is necessary for unmasking the receptor-binding epitopes of the core domain. Cleavage after Arg-247 or Arg-249 by urokinase plasminogen activator gives rise to the active form.

Cellular localization Secreted.

Images



Western blot - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845)

All lanes : Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845) at 1/1000 dilution

Lane 1 : Human fetal kidney lysate

Lane 2 : Human fetal heart lysate

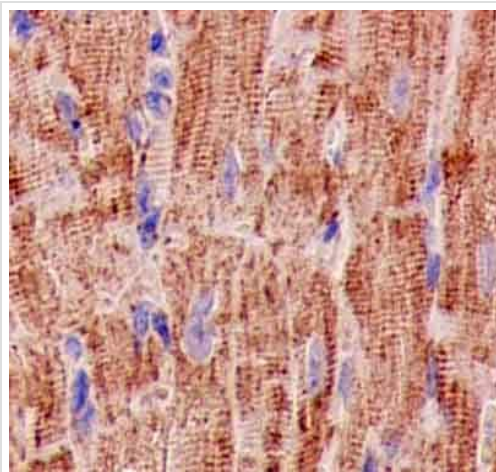
Lane 3 : Human small intestine lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab136636**) at 1/500 dilution (Goat Anti-Rabbit IgG HRP)

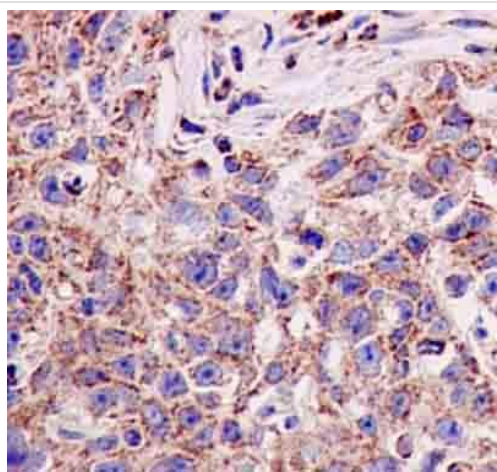
Predicted band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845)

Immunohistochemical analysis of paraffin-embedded Mouse heart tissue labeling SCDGFB/PDGF-D using ab181845 at 1/100 dilution. A ready to use HRP Polymer for Rabbit IgG prediluted was used as secondary. Counterstain: Hematoxylin.

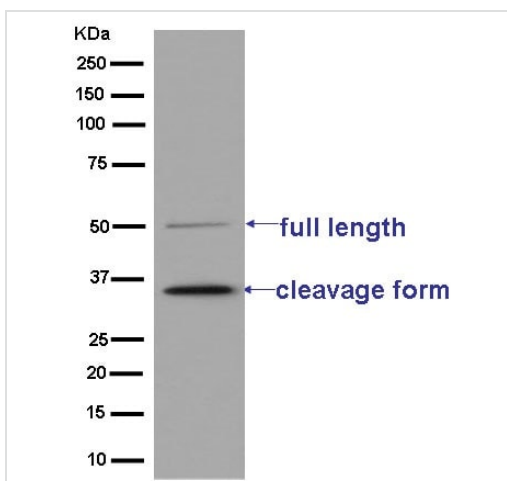
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845)

Immunohistochemical analysis of paraffin-embedded Human squamous cell lung carcinoma tissue labeling SCDGFB/PDGF-D using ab181845 at 1/100 dilution. A ready to use HRP Polymer for Rabbit IgG prediluted was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845)

Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845) at 1/1000 dilution + PC3 cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 43 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] (ab181845)

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

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