abcam

Product datasheet

Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free ab240960

Recombinant RabMAb

3 Images

Overview

Product name	Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR7266(2)] to SCDGFB/PDGF-D - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
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	IHC-P: Human squamous cell lung carcinoma tissue. Mouse heart tissue.
General notes	ab240960 is the carrier-free version of **ab181845**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7266(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240960 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 43 kDa.

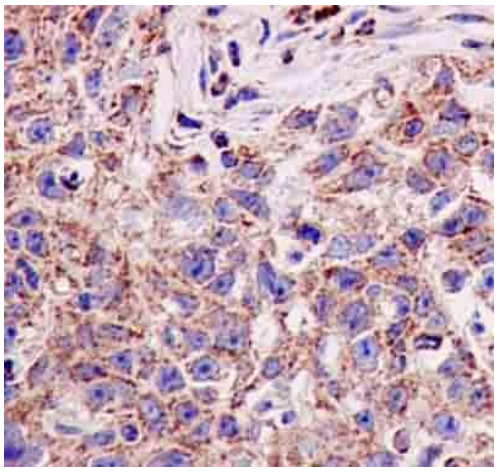
Target

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

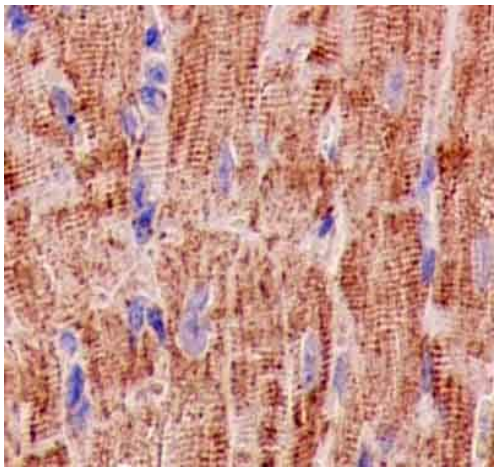


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free (ab240960)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181845**)

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

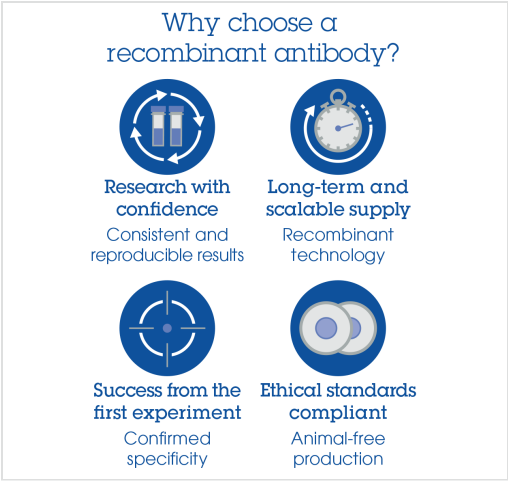


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free (ab240960)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181845**)

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



Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free (ab240960)

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