

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, Rat, Human
Immunogen	Synthetic peptide within Human SCDGFB/PDGF-D aa 300 to the C-terminus. The exact sequence is proprietary. Database link: Q9GZP0
Positive control	IHC-P: Human squamous cell lung carcinoma tissue. Mouse heart tissue.
General notes	<p>Ab240960 is the carrier-free version of ab181845. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>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.</p> <p>ab240960 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <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> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next</p>

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

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

Our [Abpromise guarantee](#) covers the use of **ab240960** in the following tested applications.

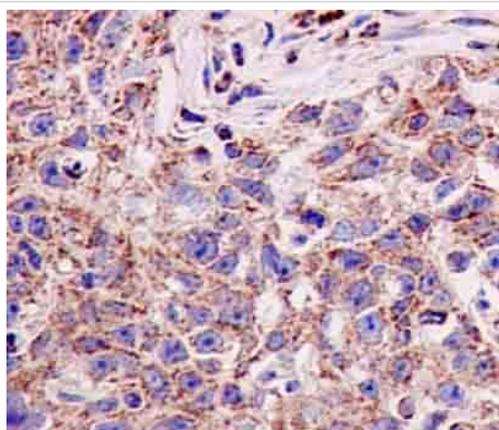
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

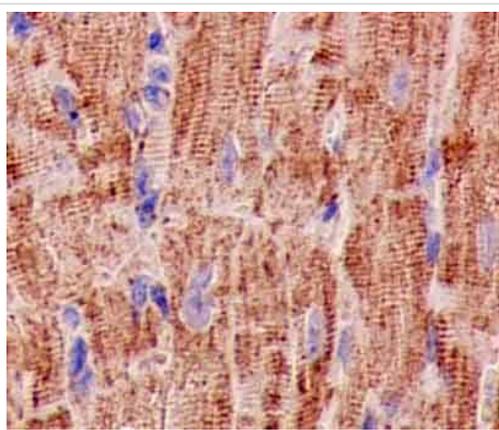


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody [EPR7266(2)] - BSA and Azide free (ab240960)

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.

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)] -
BSA and Azide free (ab240960)

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

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