

Product datasheet

Anti-SCDGFB/PDGF-D antibody ab238335

2 Images

Overview

Product name	Anti-SCDGFB/PDGF-D antibody
Description	Rabbit polyclonal to SCDGFB/PDGF-D
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	<p>Reacts with: Human</p> <p>Predicted to work with: Orangutan </p>
Immunogen	<p>Recombinant fragment corresponding to Human SCDGFB/PDGF-D aa 191-370. Sequence:</p> <pre>SGVSYNSPSVTDPTLIADALDKKIAEFDTVEDLLKYFNPES WQEDLENMY LDTPRYRGRSYHDRKSKVDLRLNDDAKRYSCTPRNYSV NIREELKLANV VFFPRCLLVQRCGGNCGCGTVNWRSCTCNSGKTVKKYH EVLQFEPGHIKR RGRAKTMALVDIQLDHHERCDCICSSRPPR</pre> <p>Database link: Q9GZP0-1</p> <p style="text-align: right;"> Run BLAST with Run BLAST with </p>
Positive control	IHC-P: Human adrenal gland and pancreas tissue.
General notes	<p>Previously labelled as SCDGFB.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p>

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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab238335** 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		1/20 - 1/200.

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.

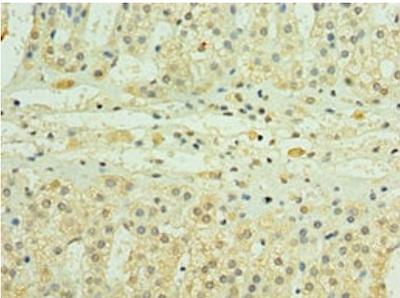
Post-translational modifications

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

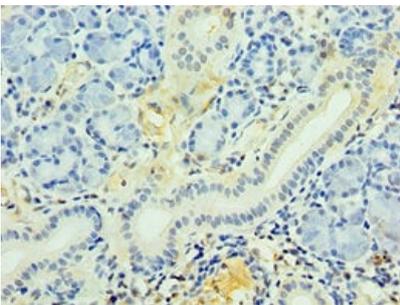
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Images



Paraffin-embedded human adrenal gland tissue stained for SCDGFB/PDGF-D using ab238335 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody (ab238335)



Paraffin-embedded human pancreas tissue stained for SCDGFB/PDGF-D using ab238335 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCDGFB/PDGF-D antibody (ab238335)

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

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