abcam

Product datasheet

Anti-VEGFB antibody ab10965

Overview

Product name	Anti-VEGFB antibody
Description	Goat polyclonal to VEGFB
Host species	Goat
Specificity	Anti-human VEGFB exhibits less than 5% cross-reactivity with recombinant human VEGFD and no cross-reactivity with recombinant human VEGF and recombinant mouse VEGF.
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant full length VEGFB 186 (Human), expressed in E. coli.
General notes	Do not store in a frost-free freezer. Endotoxin level is < 30 ng/mg antibody as determined by the LAL (Limulus amebocyte lysate) method.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.097% Sodium azide Constituents: 0.0268% PBS, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	VEGFB 167/186 specific IgG is purified by passing the goat sera over a human VEGFB 186 affinity column. The bound fraction is then purified on a human VEGFB 167 affinity column.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab10965 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
ELISA		
WB		

Application notes

ELISA: Use at a concentration of 0.5 - 1 µg/ml. The detection limit for recombinant human VEGFB 167 is approximately 0.3 ng/well. The detection limit for recombinant human VEGFB 186 is approximately 0.03 ng/well.
WB: Use at a concentration of 0.1 - 0.2 µg/ml. The detection limit for recombinant human VEGFB 167 is approximately 25 ng/lane under non-reducing and reducing conditions. The detection limit for recombinant human VEGFB 186 is approximately 5 ng/lane under non-reducing and reducing conditions. Predicted molecular weight: 22 kDa.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function	Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis.
Tissue specificity	Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.
Sequence similarities	Belongs to the PDGF/VEGF growth factor family.
Post-translational modifications	VEGF-B186 is O-glycosylated.
Cellular localization	Secreted. Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.
Form	There are 2 isoforms produced by alternative splicing.

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