

Datasheet for ABIN1589911 **anti-VEGFC antibody**



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1 Publication

Overview

Quantity:	100 µg
Target:	VEGFC
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	VEGF-C antibody
Immunogen:	Recombinant rat VEGF-C (ABIN1589785)
Isotype:	IgG
Specificity:	Recombinant rat VEGF-C
Characteristics:	Chromosomal location: 16p11 Produced from sera of rabbits immunized with highly pure recombinant rat dNdC-VEGF-C.
Purification:	Anti-rat VEGF-C IgG was purified by affinity chromatography with immobilized Protein A.

Target Details

Target:	VEGFC
Alternative Name:	VEGF-C (VEGFC Products)

Target Details

Background: Vascular endothelial growth factor C, Vegfc, VEGF-C, a member of the VEGF/PDGF family of structurally related proteins, is a potent angiogenic cytokine. It promotes endothelial cell growth, promotes lymphangiogenesis, and can also affect vascular permeability. VEGF-C is expressed in various tissues, but is not produced in peripheral blood lymphocytes. It forms cell surfaced-associated non-covalent disulfide linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. During embryogenesis, VEGF-C may play a role in the formation of the venous and lymphatic vascular systems. Both VEGF-C and VEGF-D are over-expressed in certain cancers, and the resulting elevated levels of VEGF-C or VEGF-D tend to correlate with increased lymphatic metastasis. Recombinant, fully processed rat VEGF-C is a 16-18 kDa non-disulfide linked homodimeric protein consisting of two 116 amino acid polypeptide chains. Due to glycosylation the protein migrates as a 20.0-22.0 kDa band under non-reducing condition.

Gene ID: 114111

NCBI Accession: [NM_053653](#), [NP_446105](#)

UniProt: [O35757](#)

Pathways: [RTK Signaling](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: Western Blot: Use 2-5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.

Buffer: PBS

Handling Advice: Centrifuge vial prior to opening.

Storage: 4 °C, -20 °C

Storage Comment: The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen

Handling

aliquots.

Expiry Date: 24 months

Publications

Product cited in: Maertens, Ercicum, Detry, Blacher, Lenoir, Carnet, Péqueux, Cataldo, Lecomte, Paupert, Noel: "Bone marrow-derived mesenchymal stem cells drive lymphangiogenesis." in: **PLoS ONE**, Vol. 9, Issue 9, pp. e106976, (2014) ([PubMed](#)).