

ReliaTech GmbH

Specification/Data Sheet

Anti-human VEGF-B



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.: 102-PA72S

Size: 100 μg

Lot. No.: According to product label

Country of origin: Germany

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>95%) recombinant human VEGF-B167 (Ala21-Arg188) produced in E. coli.

Target Background

Synonyms:	Vascular endothelial growth factor B, VRF, VEGF-related factor
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Vascular endothelial growth factor B (VEGF-B), also known as vascular endothelial growth factor-related factor (VRF), is a member of the VEGF family of growth factors that share structural and functional similarity. Five mammalian members, including VEGF-A, B, C, D and PIGF, have been identified. VEGF family members are disulfide-linked dimeric proteins that are important regulators of physiological and pathological vasculogenesis, angiogenesis and lymphangiogenesis. VEGF-B is expressed in most tissues, especially in heart, skeletal muscle and pancreas. In many tissues, VEGF-B is coexpressed and can heterodimerize with VEGF. By alternative splicing, two isoforms of mature VEGF-B containing 167 or 186 amino acid (aa) residues exist. The two VEGF-B isoforms have identical amino-terminal cysteine knot VEGF homology domains but the carboxyl end of VEGF-B167 differs from that of VEGF-B186 by the presence of a highly basic cysteine-rich heparin binding domain. Whereas VEGF-B186 is a secreted diffusible protein, VEGF-B167 is sequestered into the cell matrix after secretion. Both VEGF-B isoforms bind VEGF receptor 1 (VEGFR-1), but not VEGFR-2 or VEGFR-3.

Database References Antigen

Protein RefSeq:	NP_003368.1	
Uniprot ID:	P49765	
mRNA RefSeq:	NM_003377.4	

Product Specifications

Species reactivity	human
Clone/Ab feature	Rabbit IgG
Cross reactivity	ND
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	Recombinant human VEGF-B167
Formulation	lyophilized
Buffer	PBS

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

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



References

- 1. Li and Eriksson, Int J Biochem Cell Biol 33 (2001)
- 2. Olofsson et al, Curr Opin Biotechnol 10 (1999)
- 3. Olofsson et al, Proc Natl Acad Sci 93 (1996)
- 4. Grimmond et al, Benome Res 6 (1996)
- 5. Olofsson et al, Proc Nat Acad Sci 95 (1998)
- 6. Makinen et al, J Biol Chem 274 (1999)
- 7. Fuh et al, J Biol Chem 275 (2000).

Applications

Western Blot: Use at 2-5 μg/ml

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications