

## Product datasheet for **AM33409PU-N**

### VEGFC Mouse Monoclonal Antibody [Clone ID: 9/G10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9/G10
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> 2-10 µg/ml. <b>Western blot:</b> 1-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human VEGF-C
Specificity:	This antibody recognizes Human VEGF-C. Other species not tested.
Formulation:	PBS State: Purified State: Lyophilized purified IgG fraction Stabilizer: None Preservative: None
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	vascular endothelial growth factor C
Database Link:	<a href="#">Entrez Gene 7424 Human P49767</a>



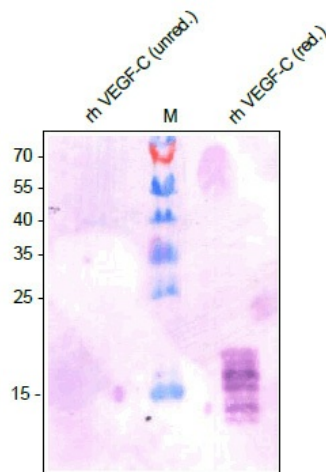
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**Background:**

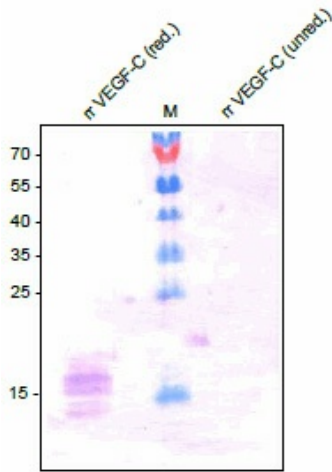
VEGF-C, also known as Vascular Endothelial Growth Factor Related Protein (VRP), is a recently discovered VEGF growth factor family member that is most closely related to VEGF-D. The human VEGF-C cDNA encodes a pre-pro-protein of 416 amino acids residues. It is almost identical to the mouse VEGF-C protein. Similar to VEGF-D, VEGF-C has a VEGF homology domain spanning the middle third of the precursor molecule and long N- and C-terminal extensions. In adults, VEGF-C is highly expressed in heart, placenta, ovary and small intestine. Recombinant human VEGF-C, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers. This protein is a ligand for both VEGFR-2/KDR and VEGFR-3/FLT-4. Since VEGFR-3 is strongly expressed in lymphatic endothelial cells, it has been postulated that VEGF-C is involved in the regulation of the growth and/or differentiation of lymphatic endothelium. Although recombinant human VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A. The recombinant human VEGF-C contains 115 amino acids residues and was fused to a His-tag (6x His) at the C-terminal end. As a result of glycosylation VEGF-C migrates as an 18-24 kDa protein in SDS-PAGE under reducing conditions.

**Synonyms:**

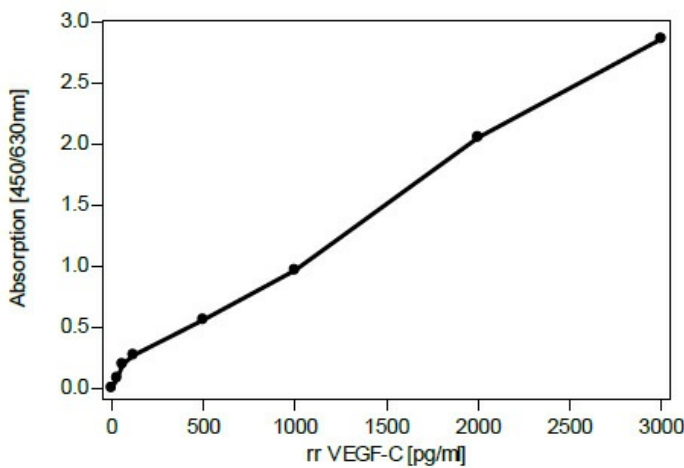
VEGFC, VRP, Vascular endothelial growth factor C, Vascular endothelial growth factor-related protein, Flt4 ligand

**Product images:**

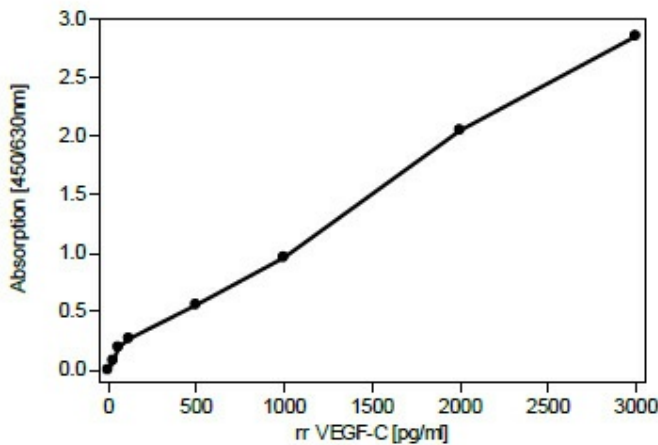
Western analysis of recombinant human VEGF-C



Western analysis of recombinant Rat VEGF-C ([DA3519X]) derived from insect cells using a monoclonal antibody directed against recombinant Human/Rat VEGF-C. The antibody does not recognize the unreduced form. The bands correspond to different glycosylated forms.



VEGF-C Sandwich-ELISA using recombinant human VEGF-C as standard. Mouse anti-human VEGF-C Antibody (Clone 9/G10) was used as capture antibody, Biotinylated mouse anti-Human VEGF-C Clone 107/A11 was used for detection.



VEGF-C Sandwich-ELISA using recombinant Rat VEGF-C as standard ([DA3519]). Mouse anti-Human VEGF-C Antibody (Clone 9/G10) was used as capture antibody, Biotinylated rabbit anti-Rat VEGF-C Antibody ([DP3507B]) was used for detection.