

## Product datasheet for **DM3527**

### VEGFC Mouse Monoclonal Antibody [Clone ID: 9E7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9E7
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1-5 µg/ml. <b>Immunofluorescence:</b> 2-10 µg/ml. <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections.</b>
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human VEGF-C protein (Cat.-No AR01001PU-N).
Specificity:	This antibody detects VEGF-C in Western Blots. No cross-reactivity is shown with VEGF-A.
Formulation:	Phosphate-Buffered Saline (PBS) State: Purified State: Lyophilized (0.2µm filtered) purified IgG fraction
Reconstitution Method:	Restore in Sterile Water to a concentration of 0.1-1.0 mg/ml. Centrifuge vial prior to opening.
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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 114111 Rat</a> <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:**

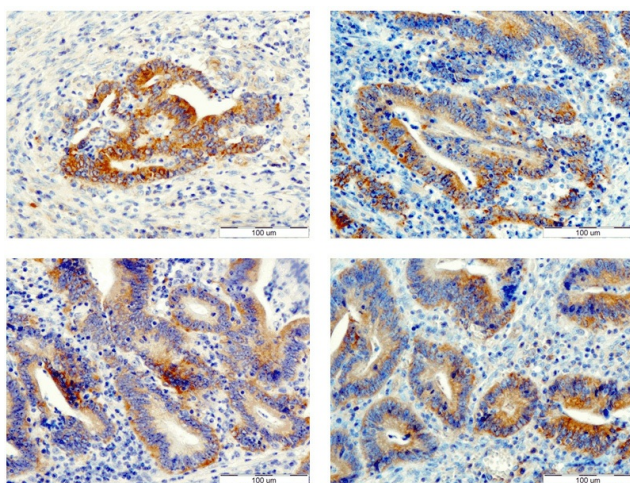
VEGFC, VRP, Vascular endothelial growth factor C, Vascular endothelial growth factor-related protein, Flt4 ligand

**Protein Families:**

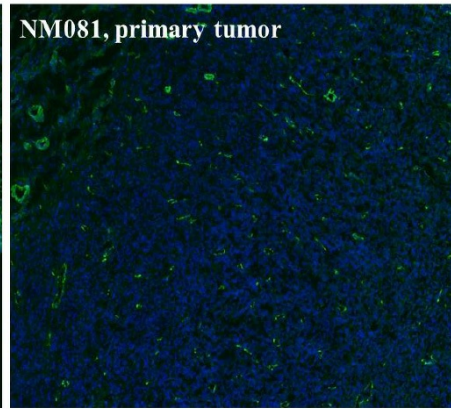
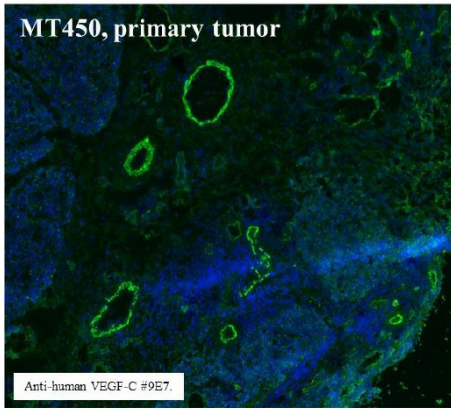
Druggable Genome, Secreted Protein

**Protein Pathways:**

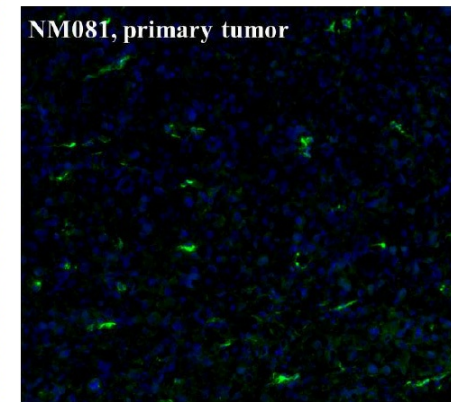
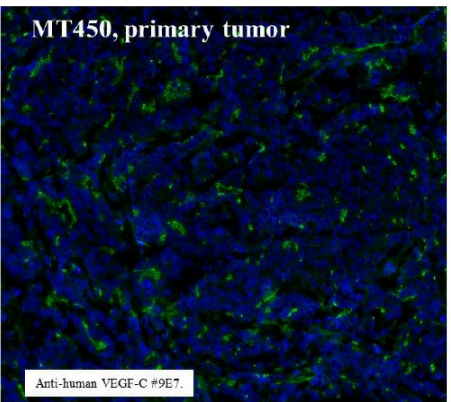
Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma

**Product images:**

Immunohistochemistry with paraffin-embedded section of human colon carcinoma tissue using (Clone 9E7). Wroclaw Medical University Department of Histology and Embriology



Staining of VEGF-C on cryo sections (acetone-fixed) of Rat mammary tumors.



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