

## Product datasheet

# Anti-VEGFC antibody [9/E7] ab106512

[3 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-VEGFC antibody [9/E7]
<b>Description</b>	Mouse monoclonal [9/E7] to VEGFC
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Recombinant fragment (His-tag) corresponding to Human VEGFC aa 103-215. Database link: <a href="#">P49767</a>

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Lyophilized:Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	9/E7
<b>Isotype</b>	IgG2a

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab106512 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
IHC-P		Use a concentration of 2 - 10 µg/ml.
IHC-Fr		Use a concentration of 2 - 10 µg/ml.

## Target

### Function

Growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors.

### Tissue specificity

Spleen, lymph node, thymus, appendix, bone marrow, heart, placenta, ovary, skeletal muscle, prostate, testis, colon and small intestine and fetal liver, lung and kidney, but not in peripheral blood lymphocyte.

### Sequence similarities

Belongs to the PDGF/VEGF growth factor family.

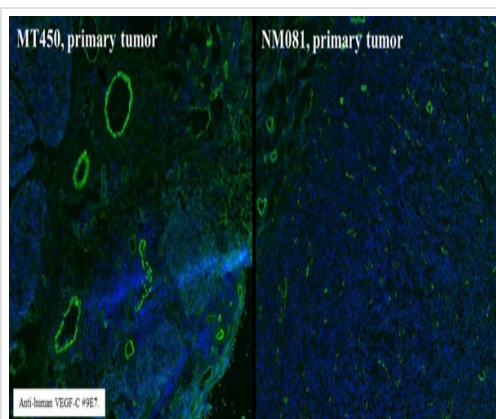
### Post-translational modifications

Undergoes a complex proteolytic maturation which generates a variety of processed secreted forms with increased activity toward VEGFR-3, but only the fully processed form could activate VEGFR-2. VEGF-C first form an antiparallel homodimer linked by disulfide bonds. Before secretion, a cleavage occurs between Arg-227 and Ser-228 producing a heterotetramer. The next extracellular step of the processing removes the N-terminal propeptide. Finally the mature VEGF-C is composed mostly of two VEGF homology domains (VHDs) bound by non-covalent interactions.

### Cellular localization

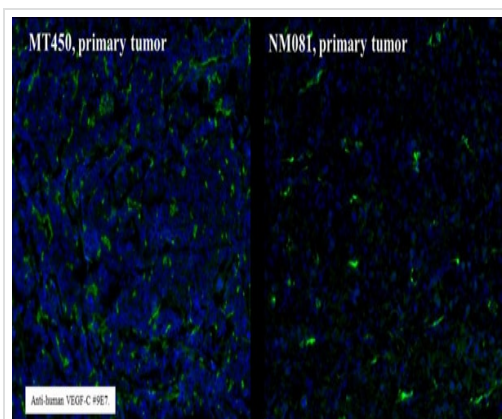
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## Images



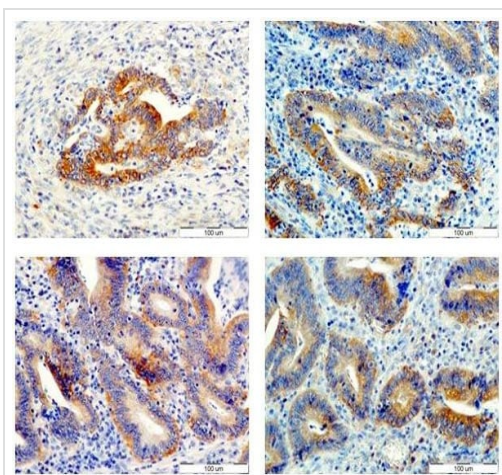
Immunohistochemistry (Frozen sections) analysis of rat mammary tumor tissue sections labelling VEGFC with ab106512.

Immunohistochemistry (Frozen sections) - Anti-VEGFC antibody [9/E7] (ab106512)



Immunohistochemistry (Frozen sections) analysis of rat mammary tumor tissue sections labelling VEGFC with ab106512.

Immunohistochemistry (Frozen sections) - Anti-VEGFC antibody [9/E7] (ab106512)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon carcinoma tissue sections labelling VEGFC with ab106512.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGFC antibody [9/E7] (ab106512)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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