abcam

Product datasheet

Recombinant Mouse VEGFC protein ab51947

1 References

Description

Product name	Recombinant Mouse VEGFC protein
Purity	> 90 % SDS-PAGE. >90% by SDS-PAGE analyses.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	HY NTEILKSIDN EWRKTQCMPR EVCIDVGKEF GAATNTFFKPPCVSVYRCGG CCNSEGLQCM NTSTGYLSKTLFEITVPLSQ GPKPVTISFANHTSCRCMSK LDVYRQVHSI IRR
Amino acids	108 to 223

Specifications

Our **Abpromise guarantee** covers the use of **ab51947** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized
Additional notes	This product is manufactured by BioVision, an Abcam company and was previously called 4634 VEGF-C, murine recombinant. 4634-10 is the same size as the 10 µg size of ab51947. Reconstituted VEGFC should be stored in working aliquots at -80°C.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituent: 0.1% Acetic acid 50 µg BSA per 1 µg VEGFC

Reconstitution	We recommend a quick spin followed by reconstitution in 0.1% acetic acid to a concentration of 0.1-1.0 mg/ml.

General Info

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 an 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	Secreted.

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