

Datasheet for ABIN731723
anti-VEGFC antibody (AA 321-415)

3 Images

3 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	VEGFC
Binding Specificity:	AA 321-415
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse VEGF-C
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	VEGFC
Alternative Name:	VEGF-C (VEGFC Products)

Target Details

Background: Synonyms: VEGF-C, AW228853, Vascular endothelial growth factor C, Flt4 ligand, Flt4-L, Vascular endothelial growth factor-related protein, VRP, Vegfc

Background: 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.

Gene ID: 22341

UniProt: [P97953](#)

Pathways: [RTK Signaling](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: WB 1:300-5000

ELISA 1:500-1000

FCM 1:20-100

IHC-P 1:200-400

IHC-F 1:100-500

IF(IHC-P) 1:50-200

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

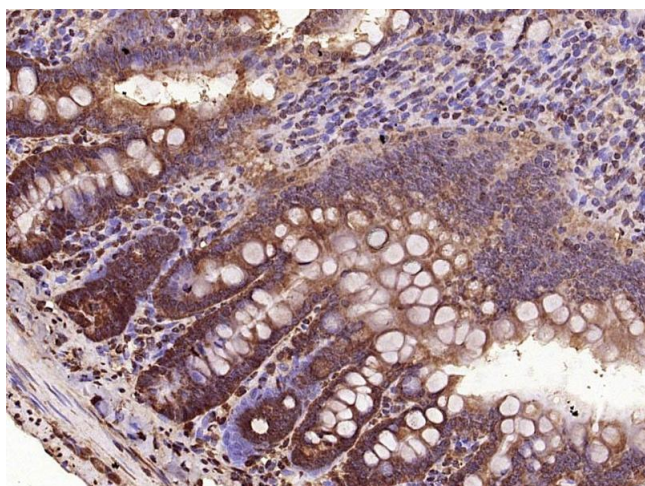
Handling

Expiry Date: 12 months

Publications

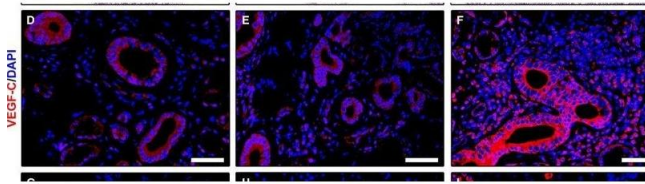
- Product cited in:
- Alunno, Ibba-Manneschi, Bistoni, Rosa, Caterbi, Gerli, Manetti: "Mobilization of lymphatic endothelial precursor cells and lymphatic neovascularization in primary Sjögren's syndrome." in: **Journal of cellular and molecular medicine**, Vol. 20, Issue 4, pp. 613-22, (2016) ([PubMed](#)).
- He, Qi, Jia, Wang, Wang, Song, Fu, Li, Luo: "Tumor cell-secreted angiogenin induces angiogenic activity of endothelial cells by suppressing miR-542-3p." in: **Cancer letters**, Vol. 368, Issue 1, pp. 115-25, (2015) ([PubMed](#)).
- Zhuo, Jia, Song, Lu, Ding, Wang, Song, Fu, Luo: "The CXCL12-CXCR4 chemokine pathway: a novel axis regulates lymphangiogenesis." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 18, Issue 19, pp. 5387-98, (2012) ([PubMed](#)).

Images



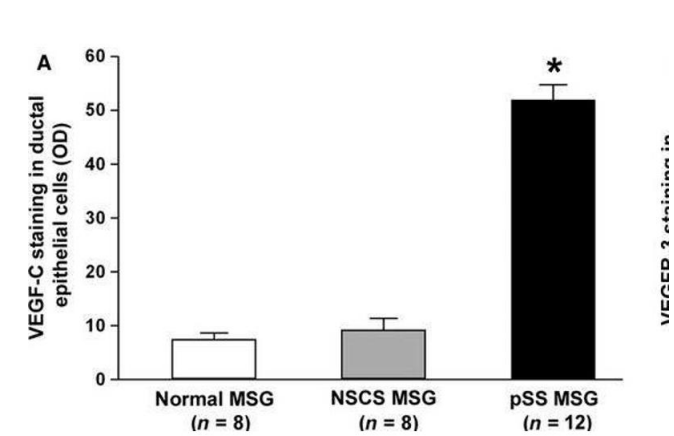
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded Rat small intestine Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with VEGF-C Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, DAB staining.



Immunofluorescence (Cultured Cells)

Image 2. Increased expression of lymphangiogenic mediators in minor salivary glands (MSGs) from patients with primary Sjögren's syndrome (pSS). (A, D, G, J and M) Normal MSGs. (B, E, H, K and N) MSGs from non-specific chronic sialadenitis (NSCS). (C, F, I, L and O) MSGs from pSS. (A-C) Hematoxylin and eosin staining. pSS MSGs display periductal inflammatory aggregates (foci) replacing the secretory units. (D-F) Immunofluorescence staining for VEGF-C (red) with 4',6-diamidino-2-phenylindole (DAPI, blue) counterstain for nuclei. Faint expression of VEGF-C is detected in normal and NSCS MSGs (D and E). In pSS MSGs, VEGF-C is strongly expressed in ductal epithelial cells, microvessels and periductal inflammatory cells (F). (G-L) Immunofluorescence staining for VEGF receptor (VEGFR)-3 (red) with DAPI (blue) counterstain. Numerous VEGFR-3+ infiltrating mononuclear cells are present in pSS MSGs (I). Both in normal and NSCS MSGs, lymphatic capillaries (arrows) show weak VEGFR-3 positivity (J and K). VEGFR-3 expression is strongly increased in lymphatic capillaries (arrows) of pSS MSGs (L). (M-O) Double immunofluorescence staining for interleukin (IL)-17 (red) and the lymphatic vessel marker podoplanin (D2-40, green) with DAPI (blue) counterstain. No IL-17 expression can be detected either in normal or NSCS MSGs (M and N). Numerous IL-17+ inflammatory cells are present around lymphatic vessels in pSS MSGs (O). Original magnification: x5 (A-C), x40 (D-O). Scale bar: 400 μ m (A-C), 50 μ m (D-O). - figure provided by CiteAb. Source: PMID26828975



Immunofluorescence (Cultured Cells)

Image 3. (A) Densitometric analysis of VEGF-C immunofluorescent staining in ductal epithelial cells of primary Sjögren's syndrome (pSS), normal and non-specific chronic sialadenitis (NSCS) minor salivary glands (MSGs). (B) Densitometric analysis of VEGF receptor (VEGFR)-3 immunofluorescent staining in lymphatic capillaries of primary pSS, normal and NSCS MSGs. Data are mean \pm S.E.M. of optical density (OD) in arbitrary units and were obtained from 8 normal, 8 NSCS and 12 pSS MSG specimens. *P < 0.01 versus normal and NSCS MSGs (Mann-Whitney U-test). - figure provided by CiteAb. Source: PMID26828975