Anti-VEGFR3: Polyclonal Vascular Endothelial Growth Factor Receptor 3 Antibody

Product Sheet CB5792

Description

BACKGROUND The Vascular Endothelial Growth Factor Receptor (VEGFR) family has three members: VEGFR-1 (also known as *flt-1*), VEGFR-2 (KDR/flk-1), and VEGFR-3 (FLT4). In VEGFR-3, the fifth Ig homology domain of the extracellular portion is proteolytically cleaved and the resulting polypeptides remain linked by twodisulfide bonds.[1] The ligands binding to VEGFRs belong tothe VEGF family of growth factors, which has five cellular members: VEGF, placenta growth factor (PlGF), VEGF-B, VEGF-C, VEGF-D, and the recently cloned viral VEGF homologue VEGF-E.[2] VEGFR-3 is requiredfor cardiovascular development during embryogenesis. In adults,this receptor is expressed in lymphatic endothelial cells. VEGF-C and VEGF-D are VEGFR3 ligands. The binding of VEGF ligands to VEGFRs activates VEGFR3 signaling, which regulates cardiovascular development, angiogenesis, and lymphangiogenesis.[3]

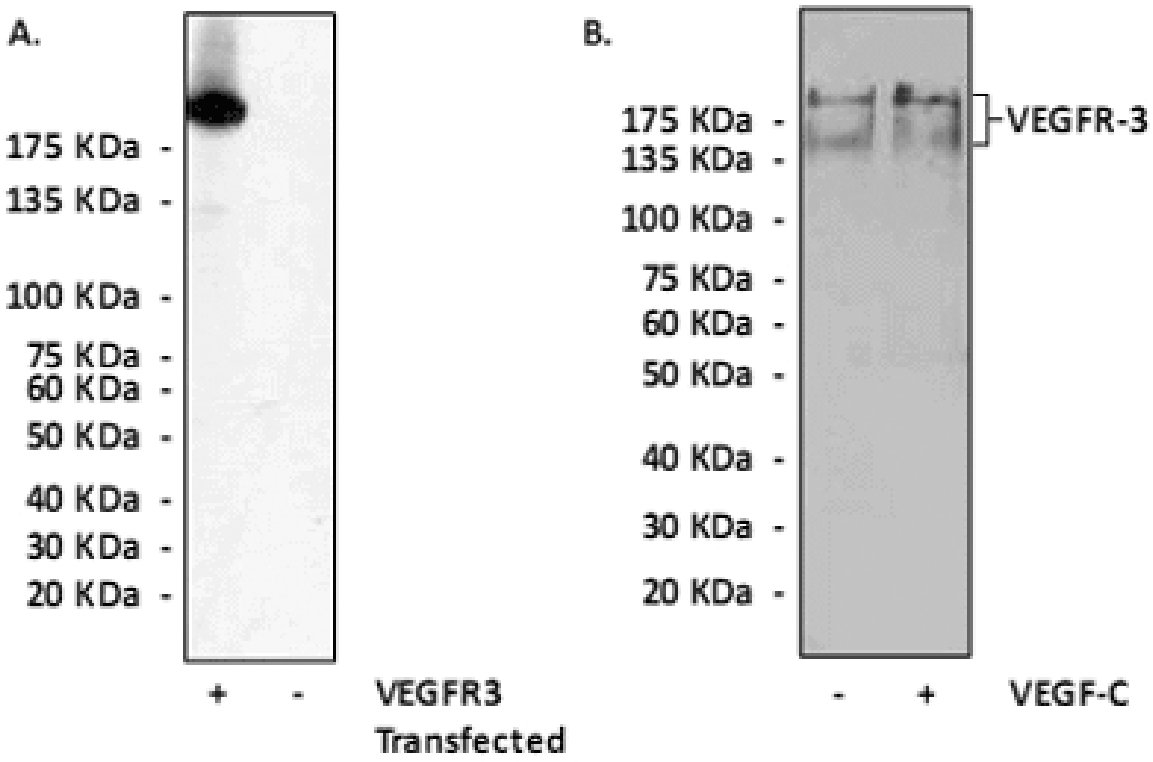
RECENT PUBLICATIONS

Liu, J., Y. Cheng, M. He, and S. Yao. 2014. Vascular endothelial growth factor C enhances cervical cancer cell invasiveness via upregulation of galectin-3 protein [1]. Gynecological Endocrinology 30:461-465.

Stewart, J., X. Ma, M. Megison, H. Nabers, W. Cance, E. Kurenova, and E. Beierle. 2015. Inhibition of FAK and VEGFR-3 binding decreases tumorigenicity in neuroblastoma [2]. Molecular Carcinogenesis, 54:9-23.

REFERENCES

1. Otrock, Z.K. et al. : Blood Cells Mol Dis. 38:258, 2007.
2. Taipale, J. et al.: Curr Top Microbiol Immunol. 237:85, 1999.
3. Su, J.L. et al.: Br J Cancer. 96:541, 2007.



[3]

(Click to Enlarge) **Figure A:** Specific detection of VEGF receptor-3 proteins from 293 cells transfected with a human VEGF receptor-3 expression vector by Western Blot analysis using VEGF Receptor-3 Rabbit Polyclonal Antibody. **Figure B:** Human Dermal Lung Endothelial Cells (HDLMVEC) (Cat# 100-05a) were stimulated with VEGF-C (50ng/ml for 5 min). VEGF-C stimulated HDLMVEC Lysate was subjected to Western Blot analysis using VEGFR3 Antibody (Cat# CB5792).

Details

Cat.No.:	CB5792
Antigen:	*E. coli*-expressed expressed cytoplasmic domain of human VEGF receptor-3.
Isotype:	Rabbit Polyclonal IgG
Species & predicted species cross-reactivity ( ):	Human
Applications & Suggested starting dilutions:*	WB 1:1000 IP n/d IHC (Paraffin) n/d ICC n/d FACS n/d
Predicted Molecular Weight of protein:	195 kDa
Specificity/Sensitivity:	Anti-VEGFR3 specifically detects endogenously expressed human VEGF receptor-3. This antibody does not cross-react with other VEGFR-family members.
Storage:	Store at -20°C, 4°C for frequent use. Avoid repeated freeze-thaw cycles.

*Optimal working dilutions must be determined by end user.

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Product Sheet CB5792 [4]

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