



# CELL

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

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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.<sup>1</sup> The ligands binding to VEGFRs belong tothe VEGF family of growth factors, which has five cellular members: VEGF, placenta growth factor (PIGF), VEGF-B, VEGF-C, VEGF-D, and the recently cloned viral VEGF homologue VEGF-E.<sup>2</sup> 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.<sup>3</sup>

### RECENT PUBLICATIONS

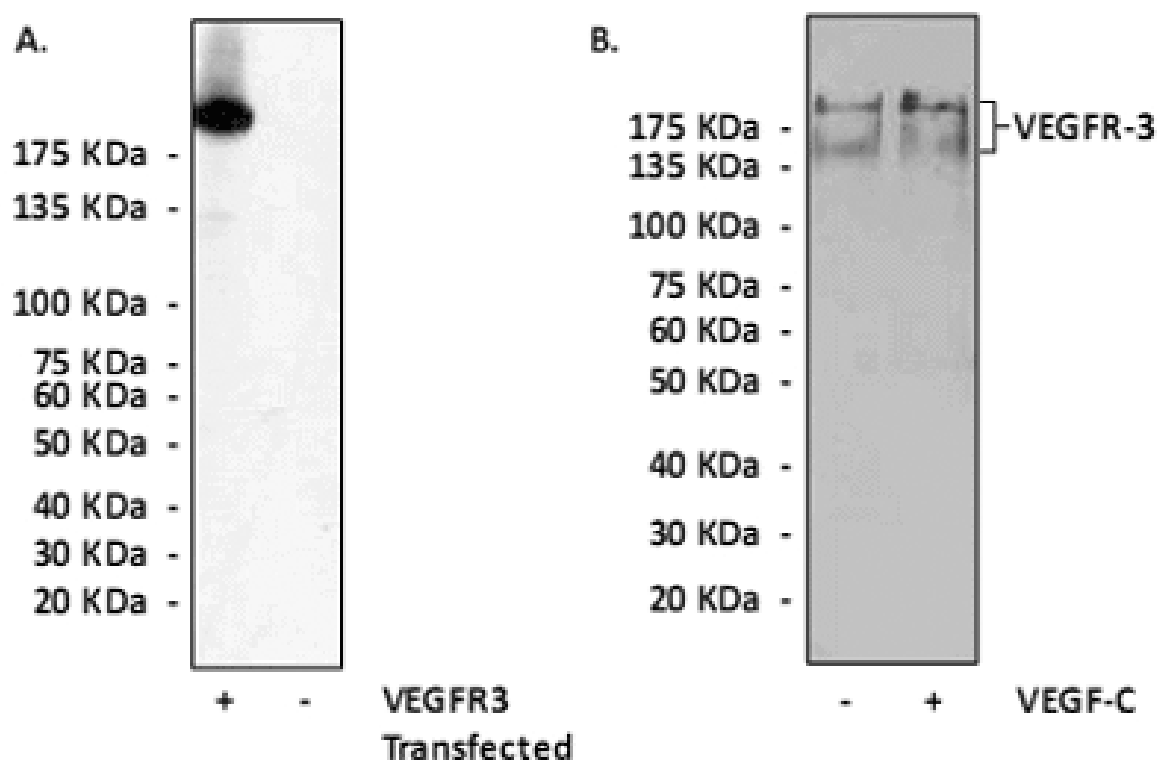
Liu, J., Y. Cheng, M. He, and S. Yao. 2014. Vascular endothelial growth factor C enhances cervical cancer cell invasiveness via upregulation of galectin-3 protein [1]. *Gynecological Endocrinology* 30:461-465.

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. Otrrock, 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.

*Products are for research use only. They are not intended for human, animal, or diagnostic applications.*



[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:	<i>E. coli</i> -expressed expressed cytoplasmic domain of human VEGF receptor-3.										
Isotype:	Rabbit Polyclonal IgG										
Species & predicted species cross-reactivity ( ):	Human										
Applications & Suggested starting dilutions:*	<table> <tr> <td>WB</td><td>1:1000</td></tr> <tr> <td>IP</td><td>n/d</td></tr> <tr> <td>IHC (Paraffin)</td><td>n/d</td></tr> <tr> <td>ICC</td><td>n/d</td></tr> <tr> <td>FACS</td><td>n/d</td></tr> </table>	WB	1:1000	IP	n/d	IHC (Paraffin)	n/d	ICC	n/d	FACS	n/d
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.

## Products

## Resources/Documents

[Product Sheet CB5792](#) <sup>[4]</sup>

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### Links

[1] <http://informahealthcare.com/doi/abs/10.3109/09513590.2014.898054>

[2] <http://onlinelibrary.wiley.com/doi/10.1002/mc.22070/full>

[3] [https://www.cellapplications.com/sites/default/files/images\\_product\\_type/CB5792-WB.gif](https://www.cellapplications.com/sites/default/files/images_product_type/CB5792-WB.gif)

[4] <https://www.cellapplications.com/sites/default/files/documents/product-sheets/Product Sheet CB5792 VEGFR-3.pdf>