

# VEGF Receptor 3 Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	195	Rabbit	#P35916	2324

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	VEGF Receptor 3 Antibody detects transfected levels of VEGFR-3. This antibody does not cross-react with VEGFR-1 and -2.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg961 of human VEGFR-3. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Vascular endothelial growth factor receptor 3 (VEGFR3) is a 195 kDa membrane receptor tyrosine kinase. VEGF receptors are characterized by the presence of seven extracellular immunoglobulin (Ig)-like domains followed by a membrane-spanning domain and a conserved intracellular tyrosine kinase domain (1). VEGF receptor 3 expression is largely restricted to adult lymphatic endothelium and is thought to control lymphangiogenesis (1,2). Binding of VEGF-C/VEGF-D to VEGFR3 results in transphosphorylation of tyrosine residues in its intracellular domain, recruitment of signaling molecules and activation of ERK1/2 and Akt signaling cascades (1,3).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Robinson, C.J. and Stringer, S.E. (2001) <i>J. Cell Sci.</i> 114, 853-865.</li> <li>2. Valtola, R. et al. (1999) <i>Am. J. Pathol.</i> 154, 1381-1390.</li> <li>3. Saharinen, P. and Petrova, T.V. (2004) <i>Ann. N.Y. Acad. Sci.</i> 1014, 76-87.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
<b>Applications Key</b>	<b>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human	
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