

VEGF Receptor 3 (C82A2) Rabbit mAb

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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 IgG	#P35916	2324

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

VEGF Receptor 3 (C82A2) Rabbit mAb detects transfected levels of VEGF receptor 3 protein. This antibody does not cross-react with other family members.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr1363 of human VEGF receptor 3.

Background

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).

Background References

1. Robinson, C.J. and Stringer, S.E. (2001) *J. Cell Sci.* 114, 853-865.
2. Valtola, R. et al. (1999) *Am. J. Pathol.* 154, 1381-1390.
3. Saharinen, P. and Petrova, T.V. (2004) *Ann. N.Y. Acad. Sci.* 1014, 76-87.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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