

Store at
-20°C
#64094**VEGF Receptor 1 (E7T9H) 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	Endogenous	180, 200	Rabbit IgG	#P17948	2321

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 1 (E7T9H) Rabbit mAb recognizes endogenous levels of total VEGF Receptor 1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human VEGF Receptor 1 protein.

Background

The vascular endothelial growth factor (VEGF) receptor (VEGFR-1, Flt-1) is a 180 kDa receptor tyrosine kinase belonging to the VEGFR (Flt) family (1-3). The receptor is comprised of seven extracellular Ig-like domains, a single transmembrane region and cytoplasmic tail containing the active kinase domain (1,2). VEGFR-1 plays an important role in endothelial cell function and normal vascular development, as well as in hematopoietic function (2,3). VEGF-A is a high affinity ligand of VEGFR-1. VEGFR-1 also binds VEGF-B and PLGF (2). Ligand binding results in very little VEGFR-1 kinase activation, and VEGFR-1/VEGF-A binding negatively regulates VEGF function by diverting the growth factor from other functional VEGF receptors (3).

Background References

1. Ferrara, N. et al. (2003) *Nat Med* 9, 669-76.
2. Clauss, M. (2000) *Semin Thromb Hemost* 26, 561-9.
3. Claesson-Welsh, L. (2003) *Biochem Soc Trans* 31, 20-4.

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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