

Human VEGF R3/FIt-4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF349

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human VEGF R3 in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant mouse VEGF R3 is observed and less than 2% cross-reactivity with recombinant human VEGF R1 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human VEGF R3 Tyr25-lle776 Accession # P35916		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.		

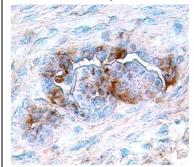
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Human VEGF R3/Flt-4 Fc Chimera (Catalog # 349-F4)
Immunohistochemistry	5-15 μg/mL	See Below

DATA

Immunohistochemistry



VEGF R3/Flt-4 in Human Uterine Cancer Tissue. VEGF R3/Flt-4 was detected in immersion fixed paraffinembedded sections of human uterine cancer tissue using Human VEGF R3/Flt-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF349) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- $\bullet~$ 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUNI

VEGF R2 (KDR/Flk-1), VEGF R1 (Flt-1) and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domains and kinase insert domains in their intracellular regions. The expression of VEGF R1, 2, and 3 is almost exclusively restricted to the endothelial cells. These receptors are likely to play essential roles in vasculogenesis and angiogenesis.

VEGF R3 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 24 aa residue signal peptide. Mature VEGF R3 is composed of a 751 aa residue extracellular domain, a 22 aa residue transmembrane domain and a 482 aa residue cytoplasmic domain. Both VEGF-C and VEGF-D have been shown to bind and activate VEGF R3 (Flt-4). VEGF R3 is widely expressed in the early embryo but becomes restricted to lymphatic endothelia at later stages of development. It is likely that VEGF R3 may be important for lymph angiogenesis.

References

1. Ferra, N. and R. Davis-Smyth (1997) Endocrine Reviews 18:4.

