

DESCRIPTION

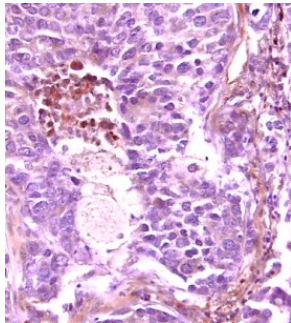
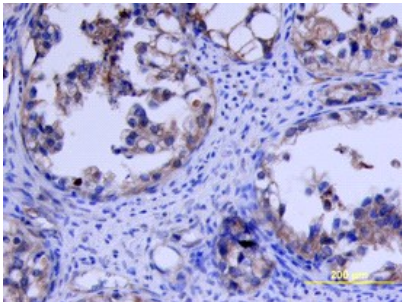
Species Reactivity	Human
Specificity	Detects human VEGF R1/Flt-1 in direct ELISAs and Western blots. In direct ELISAs, this antibody shows approximately 20% cross-reactivity with recombinant mouse VEGF R1 and less than 10% cross-reactivity with recombinant human (rh) VEGF R2 and rhVEGF R3.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human VEGF R1/Flt-1 Ser27-His687 Accession # NP_001153392
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 R1/Flt-1 Fc Chimera (Catalog # 321-FL)
Flow Cytometry	2.5 µg/10 ⁶ cells	HUVEC human umbilical vein endothelial cells
Immunohistochemistry	5-15 µg/mL	See Below
Blockade of Receptor-ligand Interaction	In a functional ELISA, 1-4 µg/mL of this antibody will block 50% of the binding of 2 ng/mL of Recombinant Human PlGF (Catalog # 264-PG) to immobilized Recombinant Human VEGF R1/Flt-1 Fc Chimera (Catalog # 321-FL) coated at 1 µg/mL (100 µL/well). At 30 µg/mL, this antibody will block >90% of the binding.	

DATA

<p>Immunohistochemistry</p>  <p>VEGF R1/Flt-1 in Human Breast Cancer Tissue. VEGF R1/Flt-1 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using 15 µg/mL Human VEGF R1/Flt-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF321) overnight at 4 °C. Tissue was stained (red) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>	<p>Immunohistochemistry</p>  <p>VEGF R1/Flt-1 in Human Ovarian Cancer Tissue. VEGF R1/Flt-1 was detected in immersion fixed paraffin-embedded sections of human ovarian cancer tissue using Human VEGF R1/Flt-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF321) at 3 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.</p>
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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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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.

BACKGROUND

Vascular Endothelial Growth Factor Receptor 1 (VEGF R1) is a receptor tyrosine kinase that is expressed primarily on endothelial cells and plays a role in vasculogenesis and angiogenesis. A soluble variant of VEGF R1 was also reported to bind VEGF and PlGF with high affinity and function as a potent VEGF antagonist.