

Human VEGFR2/KDR/Flk-1 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF357

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human VEGFR2/KDR/Flk-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant mouse VEGFR2 is observed and less than 0.2% cross-reactivity with recombinant human (rh) VEGFR3 and rhVEGFR1 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human VEGFR2/KDR/Flk-1 Ala20-Glu764 Accession # AAC16450	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

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 VEGFR2/KDR/Flk-1 Fc Chimera (Catalog # 357-KD)		
Human VEGFR2/KDR Sandwich Immunoassay		Reagent		
ELISA Capture	2-8 μg/mL	Human VEGFR2/KDR/Flk-1 Antibody (Catalog # MAB3573)		
ELISA Detection	0.1-0.4 μg/mL	Human VEGFR2/KDR/Flk-1 Biotinylated Antibody (Catalog # BAF357)		
Standard		Recombinant Human VEGFR2/KDR/Flk-1 Fc Chimera (Catalog # 357-KD)		

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.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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

VEGFR2 (KDR/Flk-1), VEGFR1 (Flt-1) and VEGFR3 (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 VEGFR1, 2, and 3 is almost exclusively restricted to the endothelial cells. These receptors are likely to play essential roles in vasculogenesis and angiogenesis.

VEGFR2 cDNA encodes a 1356 amino acid (aa) residue precursor protein with a 19 aa residue signal peptide. Mature VEGFR2 is composed of a 745 aa residue extracellular domain, a 25 aa residue transmembrane domain and a 567 aa residue cytoplasmic domain. In contrast to VEGFR1 which binds both P/GF and VEGF with high affinity, VEGFR2 binds VEGF but not P/GF with high affinity.

References:

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

