Datasheet for ABIN1589929

anti-VEGFR2/CD309 antibody (Biotin)

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Overview

Quantity:	50 µg
Target:	VEGFR2/CD309 (VEGFR2)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This VEGFR2/CD309 antibody is conjugated to Biotin
Application:	Western Blotting (WB)

Product Details

Purpose:	VEGFR-2/Flk-1 antibody
Immunogen:	Recombinant mouse soluble Flk-1
Clone:	3C8
Isotype:	IgG1
Specificity:	Recombinant mouse soluble Flk-1
Characteristics:	Chromosomal location: 5 C3.3, 5 42.0 cM Monoclonal antibodies were produced from a murine hybridoma elicited from a rat immunized with purified, insect cell-derived recombinant mouse soluble Flk-1/KDR (110 kDa) as the immunizing antigen.
Purification:	Rat IgG1 antibody from hybridomas was purified from cell culture supernatant by Protein G chromatography and then biotinylated using a standard protocol.

Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGFR-2/Flk-1
Background:	Vascular endothelial growth factor receptor-2 , Kdr, Ly73, Flk-1, VEGF receptor 2, kinase insert domain protein receptor,VEGF R2 (mouseFlk1 gene), VEGF R1 (Flt1) and VEGF R3 (Flt4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulinlike 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. Mouse VEGF R2 cDNA encodes a 1367 amino acid (aa) precursor protein with a 19 aa signal peptide. Mature VEGF R2 is composed of a 743 aa extracellular domain, a 22 aa transmembrane domain, and a 583 aa cytoplasmic domain. In contrast to VEGF R1 which binds both PlGF and VEGF with high affinity, VEGF R2 binds VEGF but not PlGF with high affinity. The solube receptor was used as a an antigen.
Gene ID:	16542
UniProt:	P35918
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process, Signaling Events mediated by VEGFR1 and VEGFR2, Growth Factor Binding, Regulation of long-term Neuronal Synaptic Plasticity, VEGF Signaling

Application Details

Application Notes:	Western Blot: use at 2-5 µg/mL.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.
Buffer:	PBS, BSA (50x), 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Centrifuge vial prior to opening.
Storage:	4 °C,-20 °C
Storage Comment:	The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.
Expiry Date:	24 months