

Datasheet for ABIN1589717
anti-VEGFR2/CD309 antibody (Biotin)



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Overview

Quantity:	50 µg
Target:	VEGFR2/CD309 (VEGFR2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This VEGFR2/CD309 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	VEGFR-2/KDR antibody
Immunogen:	Recombinant human soluble extracellular KDR (D7)
Clone:	3(4H3)
Isotype:	IgG1
Specificity:	Recombinant human soluble extracellular KDR (D7)
Cross-Reactivity (Details):	The monoclonal antibody will detect native human VEGFR-2/KDR in ELISA experiments and on the surface of different human cell types.
Characteristics:	Chromosomal location: 4q11-q12 The monoclonal antibody was produced with the help of BALB/c mice using recombinant human soluble extracellular KDR (110 kDa) as the immunizing antigen. The monoclonal antibody will detect native human VEGFR-2/KDR in ELISA experiments and on the surface of different human cell types.

Product Details

Purification:	Mouse IgG1 antibody (clone 3 (4H3)) from hybridomas was purified from cell culture supernatant by Protein G chromatography and then biotinylated using a standard protocol.
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Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGFR-2/KDR (VEGFR2 Products)
Background:	Vascular endothelial growth factor receptor-2 , KDR, FLK1, CD309, VEGF receptor 2, VEGFR2, kinase insert domain protein receptor, VEGF R1 (Flt-1), VEGF R2 (KDR/Flk-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 domain and kinase insert domains in their intracellular region. They are best known for regulating VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. They are also mediators of neurotrophic activity and regulators of hematopoietic development. Human VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis.
Gene ID:	3791
NCBI Accession:	NM_002253 , NP_002244
UniProt:	P35968
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:	FACS: Use at 2-10 µg/mL, 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

Handling

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 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