

Mouse VEGFR2/KDR/Flk-1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 3319C Catalog Number: MAB11749

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects a synthetic peptide specific for mouse VEGFR2 around amino acid 1300 in Direct ELISA.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 3319C	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Synthetic Peptide Accession # P35918	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.	

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.			
Multiplex Immunofluorescence	10 μg/mL	Immersion fixed paraffin-embedded sections of mouse spleen	
lmmunohistochemistry	0.5-10 μg/mL	Perfusion fixed paraffin-embedded sections of mouse liver and mouse kidney	

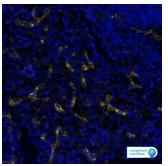


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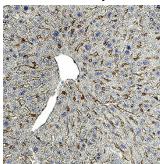
DATA

Multiplex Immunofluorescence



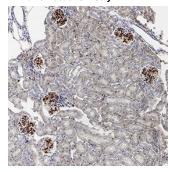
Detection of VEGFR2/KDR/FIk-1 in Mouse Spleen via seglF™ staining on COMET™ VEGFR2/KDR/Flk-1 was detected in immersion fixed paraffinembedded sections of mouse spleen using Rabbit Anti-Mouse VEGFR2/KDR/Flk-1 . Monoclonal Antibody (Catalog #MAB11749) at 10ug/mL at 37° Celsius for 8 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 647 Goat anti-Rabbit IgG Secondary Antibody at 1:200 at 37 Celsius for 2 minutes. (Yellow: Lunaphore Catalog # DR647RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the endothelial cells.

Immunohistochemistry



Detection of VEGFR2/KDR/FIk-1 in Mouse Liver. VEGFR2/KDR/Flk-1 was detected in perfusion fixed paraffinembedded sections of mouse liver using Rabbit Anti-Mouse VEGFR2/KDR/Flk-1 Monoclonal Antibody (Catalog # MAB11749) at 0.5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008) and counterstained with hematoxylin (blue). Specific staining was localized to the cell surface of endothelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



Detection of VEGFR2/KDR/FIk-1 in Mouse Kidney. VEGFR2/KDR/FIk-1 was detected

Protocol available in COMET™

Panel Builder.

in perfusion fixed paraffinembedded sections of mouse kidney using Rabbit Anti-Mouse VEGFR2/KDR/Flk-1 Monoclonal Antibody (Catalog # MAB11749) at 0.5 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008) and counterstained with hematoxylin (blue). Specific staining was localized to the cell surface of endothelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store 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.

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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 endothelial cells. These receptors are likely to play essential roles in vasculogenesis and angiogenesis. Mature mouse VEGFR2 is composed of a 743 amino acid (aa) extracellular domain, a 22 aa transmembrane domain, and a 583 aa cytoplasmic domain. In contrast to VEGFR1 which binds both PIGF and VEGF with high affinity, VEGFR2 binds VEGF but not PIGF with high affinity.

References:

- 1. Ferra, N. and R. Davis-Smyth (1997) Endocrine Reviews 18:4.
- 2. Achen, M.G. et al. (1998) Proc. Natl. Acad. Sci. USA 95:548.

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