

For Research Use Only

# CoraLite® Plus 488-conjugated VEGFR2/KDR Monoclonal antibody



Catalog Number: **CL488-67407**

## Basic Information

<b>Catalog Number:</b> CL488-67407	<b>GenBank Accession Number:</b> BC131822	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3791	<b>CloneNo.:</b> 1G2A8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P35968	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG1	<b>Full Name:</b> kinase insert domain receptor (a type III receptor tyrosine kinase)	
<b>Immunogen Catalog Number:</b> AG24589	<b>Calculated MW:</b> 1356 aa, 152 kDa	
	<b>Observed MW:</b> 230 kDa	

## Applications

**Tested Applications:**  
**Species Specificity:**  
Human

## Background Information

KDR, also named as VEGFR-2, FLK1 and CD309, is a receptor for VEGF or VEGFC. KDR which belongs to the protein kinase superfamily, has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. KDR functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. Mutations of this gene are implicated in infantile capillary hemangiomas.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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