G-Biosciences Image not found or type unknown

Immunotag™ Phospho-VEGFR1 (Tyr1213) Antibody

Antibody Specification

Catalog No.	ITA0975
Product Description	Immunotag™ Phospho-VEGFR1 (Tyr1213) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-VEGFR1 (Tyr1213)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human VEGFR1 around the phosphorylation site of Tyrosine 1213
Specificity	Phospho-VEGFR1 (Tyr1213) Antibody detects endogenous levels of VEGFR1 only when phosphorylated at Tyrosine 1213
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	FLT1
Accession No.	P17948

Antibody Specification

Alternate Names	EC 2.7.10.1; FLT 1; FLT; Flt-1; FLT1; Fms like tyrosine kinase 1; Fms related tyrosine kinase 1; Fms related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor); Fms related tyrosine kinase 1 vascular endothelial growth factor/vascular permeability factor receptor; Fms-like tyrosine kinase 1; FRT; Soluble VEGF receptor 1 14; Soluble VEGFR1 variant 2; Soluble VEGFR1 variant 21; Tyrosine protein kinase FRT; Tyrosine protein kinase receptor FLT; Tyrosine-protein kinase FRT; Tyrosine-protein kinase receptor FLT; Vascular endothelial growth factor receptor 1; Vascular endothelial growth factor vascular permeability factor receptor; Vascular permeability factor receptor 1; Vascular permeability factor receptor; VEGFR 1; VEGFR-1; VEGFR1; VGFR1_HUMAN;
Description	Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells. Can promote endothelial cell proliferation, survival and angiogenesis in adulthood. Its function in promoting cell proliferation seems to be cell-type specific. Promotes PGF-mediated proliferation of endothelial cells, proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts (in vitro). Has very high affinity for VEGFA and relatively low protein kinase activity; may function as a negative regulator of VEGFA signaling by limiting the amount of free VEGFA and preventing its binding to KDR. Likewise, isoforms lacking a transmembrane domain, such as isoform 2, isoform 3 and isoform 4, may function as decoy receptors for VEGFA. Modulates KDR signaling by forming heterodimers with KDR. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of protein kinase C. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leading to activation of phosphatidylinositol kinase and the downstream signaling pathway. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Phosphorylates SRC and YES1, and may also phosphorylate CBL. Isoform 1 phosphorylates PLCG. Promotes phosphorylation of AKT1 at 'Ser-473'. Promotes phosphorylation of PTK2/FAK1. Isoform 7 has a truncated kinase domain; it increases phosphorylation of SRC at 'Tyr-418' by unknown means and promotes tumor cell invasion.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.