Human VEGFR3/Flt4 Antibody Pair Set

Catalog No. E-KAB-0440 **Applications** ELISA
Synonyms FLT41;PCL;LMPH1A

Kit components & Storage

Title	Specifications	Storage
Human VEGFR3/Flt4 Capture Antibody	1 vial, 100 μg	Store at -20℃ for one year. Avoid freeze/thaw cycles.
Human VEGFR3/Flt4 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ for one year. Avoid freeze/thaw cycles.

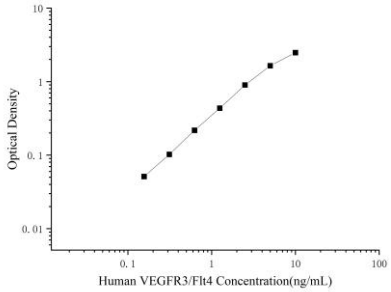
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0440)	
		Human VEGFR3/Flt4 Capture Antibody	Human VEGFR3/Flt4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human VEGFR3/Flt4 protien	Recombinant Human VEGFR3/Flt4 protien
	Swissprot	P35916	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A	Protein A
	Specificity	Detects Human VEGFR3/Flt4 in ELISAs.	

Applications

Human VEGFR3/Flt4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 μg/mL	Human VEGFR3/Flt4 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human VEGFR3/Flt4 Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD , and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation , survival and migration of endothelial cells , and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC , and to a lesser degree VEGFA , thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades , isoform 2 seems to be less efficient in signal transduction , because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2 , MAPK3/ERK1 signaling pathway , of MAPK8 and the JUN signaling pathway , and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1 , the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr-185' , and of AKT1 at 'Ser-473'