

Human fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) ELISA Kit | FLT1 elisa kit

Human vascular endothelial cell growth factor receptor 1, VEGFR-1/Flt1 ELISA Kit

CATALOG #

AAA80398

REACTIVITY

Human

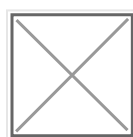
PRODUCT SYNONYMS

fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor); Human vascular endothelial cell growth factor receptor 1; VEGFR-1/Flt1 ELISA Kit; Human vascular endothelial cell growth factor receptor 1 (VEGFR-1/Flt1) ELISA kit; Flt1; FLT; VEGFR1; fms-related tyrosine kinase 1; vascular endothelial growth factor receptor 1; FLT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human FLT1. No significant cross-reactivity or interference between Human FLT1 and analogues was observed.
Sequence Length	541
Samples	Serum, plasma, tissue homogenates
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	0.039 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FLT1 elisa kit

Introduction: VEGF receptors are receptors for vascular endothelial growth factor (VEGF). VEGF Receptor 1 (also known as FLT) belongs to the src gene family and shows tyrosine protein kinase activity that is important for the control of cell proliferation and differentiation. The protein acts as a receptor for VEGF, VEGFB and PGF. An alternatively spliced form of the gene produces a soluble protein (sVEGFR-1/sFlt1) which binds VEGF with high affinity. sVEGFR-1 has a higher affinity for VEGF indicating that it may function as an inhibitor in the VEGF response.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to sVEGFR-1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for sVEGFR-1 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5 tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain sVEGFR-1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of sVEGFR-1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	229892302
NCBI GeneID	2321
NCBI Accession #	NP_001153503.1
NCBI GenBank Nucleotide #	NM_001160031.1
UniProt Accession #	P17948 ; O60722 ; A3E342 ; A3E344 ; A8KA71 ; B0LPF1 ; B2BF46 ; B2BF47 ; B2BF48 ; B3FR89 ; B5A923 ; F5H5L6
Molecular Weight	41,175 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 1 isoform 4
NCBI Official Synonym Full Names	fms-related tyrosine kinase 1
NCBI Official Symbol	FLT1
NCBI Official Synonym Symbols	FLT; FLT-1; VEGFR1; VEGFR-1
NCBI Protein Information	vascular endothelial growth factor receptor 1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
UniProt Protein Name	Vascular endothelial growth factor receptor 1
UniProt Gene Name	FLT1
UniProt Synonym Gene Names	FLT; FRT; VEGFR1; VEGFR-1; FLT-1; FLT
UniProt Entry Name	VGFR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/flt1-human-elisa-kits/fms-related-tyrosine-kinase-1-vascular-endothelial-growth-factor-vascular-permeability-factor-receptor/80398>