

Human TIE2 ELISA Kit | TEK elisa kit

Human TIE2 PicoKine ELISA Kit

CATALOG #
AAA45286

REACTIVITY
Human

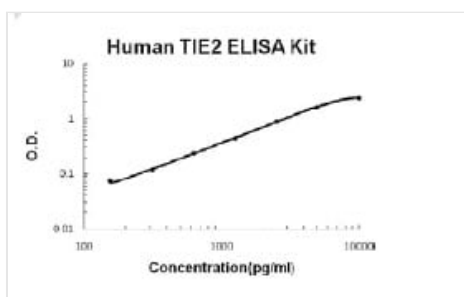
PRODUCT SYNONYMS

TIE2; Human TIE2 PicoKine ELISA Kit; Angiopoietin-1 receptor; TEK tyrosine kinase; endothelial; CD202b; CD202b antigen; EC 2.7.10.1; hTIE2; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; Tek; TIE 2; TIE2_HUMAN; Tunica interna endothelial cell kinase; Tyrosine-protein kinase receptor TEK; Tyrosine-protein kinase receptor TIE 2; Tyrosine-protein kinase receptor TIE-2; venous malformations; multiple cutaneous and mucosal; VMCM; VMCM1; TEK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TEK
Sequence Length	1124
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, edta)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<5pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess interassay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TEK elisa kit	Principle of the Assay: The Picokine™ Human TEK Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human TEK with a 96-well strip plate that is pre-coated with antibody specific for TEK. The detection antibody is a biotinylated antibody specific for TEK. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human TEK with immunogen: Expression system for standard: NSO; Immunogen sequence: A23-K745. The kit is analytically validated with ready to use reagents. To measure Human TEK, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human TEK in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human TEK in the sample. Background/Introduction: Tyrosine kinase with Ig and EGF homology domain 2(Tie-2), also called TEK tyrosine kinase, endothelial(TEK). Tie-2 and tie-1 are expressed in early embryonic vascular system and in maternal decidual vascular endothelial cells, where the vasculature undergoes an active angiogenesis. Tie-2, but not tie-1, expression was also detected in extraembryonic mesoderm of the amnion. Angiogenesis is coordinated with follicular cell growth in goitrogenesis. The angiopoietins, Ang-1 and Ang-2, are angiogenic growth factors acting through Tie-2. Tie-2 and Ang-1 are expressed in thyroid epithelial and endothelial cells, and Tie-2 is regulated by TSH and cAMP in follicular cells. And Tie-2 expression is increased in goiter in both humans and rats, consistent with a role in goitrogenesis. Tie2/Ang-1 signaling pathway plays a critical role in the maintenance of HSCs in a quiescent state in the BM niche. And the Tie-2 signaling pathway is also critical for endothelial cell-smooth muscle cell communication in venous morphogenesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	218511853
NCBI GeneID	7010
UniProt Accession #	Q02763; Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
Molecular Weight	109,141 Da
NCBI Official Full Name	Angiopoietin-1 receptor
NCBI Official Synonym Full Names	TEK tyrosine kinase, endothelial
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; TIE-2; VMCM1; CD202B
NCBI Protein Information	angiopoietin-1 receptor; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase with Ig and EGF homology domains-2
UniProt Protein Name	Angiopoietin-1 receptor
UniProt Gene Name	TEK
UniProt Synonym Gene Names	TIE2; VMCM; VMCM1; hTIE2
UniProt Entry Name	TIE2_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.