

Human CD105 ELISA Kit | CD105 elisa kit

Human CD105 PicoKine Fast ELISA Kit

CATALOG #
AAA125339

REACTIVITY
Human

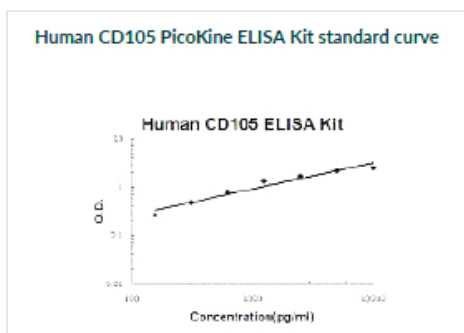
PRODUCT SYNONYMS

CD105; Human CD105 PicoKine Fast ELISA Kit; Human CD105; Endoglin; ENG; END; CD105 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human ENG
Sequence Length	625
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<15pg/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 accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD105 elisa kit	Principle of the Assay: The Picokine™ Human ENG Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ENG with a 96-well strip plate that is pre-coated with antibody specific for ENG. The detection antibody is a biotinylated antibody specific for ENG. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human ENG with immunogen: Expression system for standard: CHO; Immunogen sequence: E26-G586. The kit is analytically validated with ready to use reagents. To measure Human ENG, 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 propotional to Human ENG 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 ENG in the sample.!!Background/Introduction: CD105, also called Endoglin, is a homodimeric membrane glycoprotein primarily associated with human vascular endothelium. It is also found on bone marrow proerythroblasts, activated monocytes, and lymphoblasts in childhood leukemia. Endoglin is a component of the transforming growth factor-beta(TGFB) receptor complex and binds TGFB1 with high affinity.1 CD105 gene is mapped to 9q34.1. The coding region of the gene contains 14 exons.2 The protein consists of a homodimer of 180 kDa with disulfide links. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. Furthermore, it also has a role in the balance of ALK1 and ALK5 signaling to regulate endothelial cell proliferation.3 Moreover, the elevated expression of endoglin in the surgically excised CNVMs suggested a persisting postmitotic activation in an advanced stage of neovascular tissue.4 The standard product used in this kit is extracellular part of recombinant human CD105, from E26 to G586. As a result of glycosylation, the molecular mass is 75-85KDa.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109.1
NCBI GenBank Nucleotide #	NP_000109.1
UniProt Accession #	P17813
NCBI Official Full Name	endoglin isoform 2
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin
UniProt Protein Name	Endoglin
UniProt Gene Name	ENG
UniProt Synonym Gene Names	END
UniProt Entry Name	EGLN_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.