

Human CD105 ELISA Kit | ENG elisa kit

Human CD105 PicoKine ELISA Kit

CATALOG #
AAA45333

REACTIVITY
Human

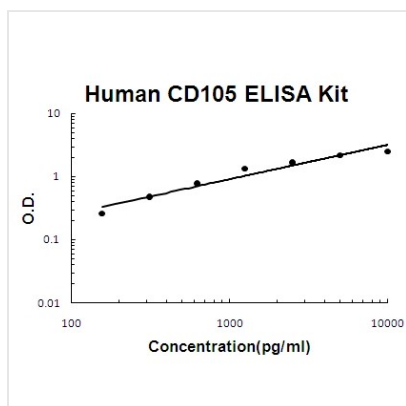
PRODUCT SYNONYMS

CD105; Human CD105 PicoKine ELISA Kit; Endoglin; endoglin; AI528660; AI662476; CD 105; CD105 antigen; Cell surface MJ7/18 antigen; END; ENG; FLJ41744; HHT1; ORW; ORW1; Osler Rendu Weber syndrome 1; OTTMUSP00000012838; OTTMUSP00000012839; RP11 228B15.2; RP23 17P12.4; S endoglin; Transmembrane glycoprotein; ENG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human CD105
Sequence Length	658
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
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 between 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, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human CD105 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for ENG elisa kit	Principle of the assay: human CD105 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD105 has been precoated onto 96-well plates. Standards(CHO,E26-G586) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD105 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human CD105 amount of sample captured in plate. Background: 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 Theprotein 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.3Moreover, 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 ofrecombinant 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 #	3041681
NCBI GeneID	2022
UniProt Accession #	P17813; Q14248; Q14926; Q5T9C0
Molecular Weight	67,542 Da
NCBI Official Full Name	Endoglin
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin; CD105 antigen
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.