

Datasheet for KOA0371**Human CD105 ELISA Kit****Overview**

Description:	Human CD105 AccuSignal ELISA Kit - KOA0371
Item No.:	KOA0371
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

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 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 huma...
Synonyms:	AI528660, AI662476, CD 105, CD105 antigen, Cell surface MJ7/18 antigen, END, Endoglin, ENG, FLJ41744, HHT1, ORW, ORW1, Osler Rendu Weber syndrome 1, OTTMUSP00000012838, OTTMUSP00000012839, RP11 228B15.2, RP23 17P12.4, S endoglin, Transmembrane glycoprotein
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<15 pg/ml

Target Details

Gene Name: ENG

Reactivity:	Human
Immunogen:	Expression system for standard: CHO; Immunogen sequence: E26-G586
Purity/Specificity:	Natural and recombinant human CD105. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P17813 • NCBI - NP_000109.1 • GeneID - 2022 • KOA0371 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human CD105 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human CD105 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

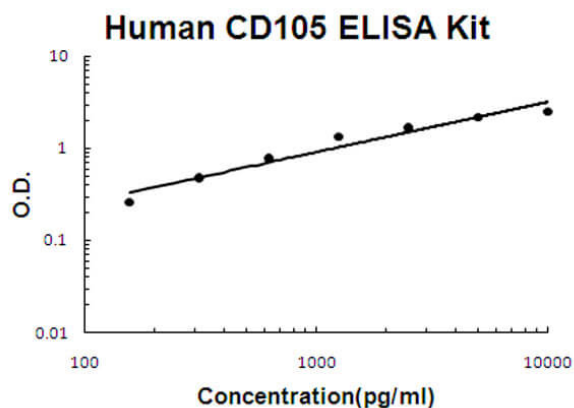
Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA

Human CD105 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <15pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.