

Datasheet for KOA0846**Human CD97 ELISA Kit****Overview**

Description:	Human CD97 AccuSignal ELISA Kit - KOA0846
Item No.:	KOA0846
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	125 pg/ml - 8000 pg/ml

Product Details

Background:	Cluster of differentiation 97 is a protein also known as BL-Ac [F2] encoded by the ADGRE5 gene. The CD97 gene is mapped to 19p13.2-p13.12 by fluorescence in situ hybridization. In the immune system, CD97 is known as a critical mediator of host defense. Upon lymphoid, myeloid cells and neutrophil activation, CD97 is upregulated to promote adhesion and migration to sites of inflammation. Moreover, it has been shown that CD97 regulates granulocyte homeostasis. CD97 is expressed at the sarcoplasmic reticulum and the peripheral sarcolemma in skeletal muscle. However, lack of CD97 only affects the structure of the sarcoplasmic reticulum, but not the function of skeletal muscle.
Synonyms:	CD 97, CD_antigen=CD97, CD97, CD97 antigen, CD97 antigen subunit beta, CD97 molecule, CD97_HUMAN, Leukocyte antigen CD97, Seven span transmembrane protein, Seven transmembrane helix receptor, Seven transmembrane heterodimeric receptor associated with inflammation, TM7LN 1, TM7LN1
Detection Kit Type:	ELISA Kit
Detection Range:	125 pg/ml - 8000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ADGRE5
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q21-Q398

Purity/Specificity: Natural and recombinant human CD97. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P48960](#)
- [NCBI - NP_001020331.1](#)
- [GeneID - 976](#)
- [KOA0846 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 8000pg/ml, 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml human CD97 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 CD97 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

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.

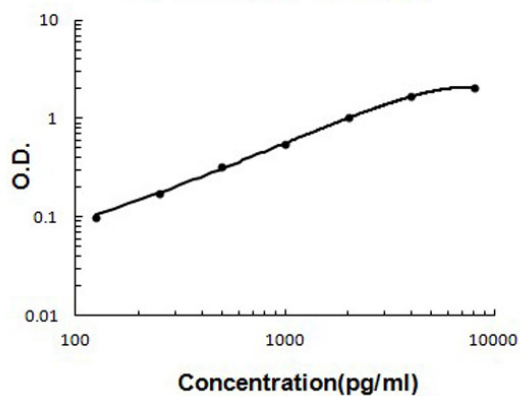
Expiration: See kit insert for complete instructions.

Images

Human CD97 ELISA Kit

ELISA

Human CD97 ELISA Kit standard curve.



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.