

Datasheet for KOA0434**Human CXCL16 ELISA Kit****Overview**

Description:	Human CXCL16 AccuSignal ELISA Kit - KOA0434
Item No.:	KOA0434
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	93.7 pg/ml - 6000 pg/ml

Product Details

Background:	Chemokine(C-X-C motif) ligand 16(CXCL16) is a small cytokine belonging to the CXC chemokine family. Larger than other chemokines(with 254 amino acids), CXCL16 is composed of a CXC chemokine domain, a mucin-like stalk, a transmembrane domain and a cytoplasmic tail containing a potential tyrosine phosphorylation site that may bind SH2. These are unusual features for a chemokine, and allow CXCL16 to be expressed as a cell surface bound molecule, as well as a soluble chemokine. CXCL16 is produced by dendritic cells found in the T cell zones of lymphoid organs, and by cells found in the red pulp of the spleen. Cells that bind and migrate in response to CXCL16 include several subsets of T cells, and natural killer T(NKT) cells. CXCL16 interacts with the chemokine receptor CXCR6, also known as Bonzo. The novel CXC-chemokine ligand 16(CXCL16) functions as transmembrane adhesion molecule on the surface of APCs and as a soluble chemoattractant for activated T cells. Expression of CXCL16 is induced by the inflammatory cytokines IFN-gamma and TNF-alpha. The gene for human CXCL16 is located on chromosome 17.
Synonyms:	0910001K24Rik, AV290116, BB024863, C X C motif chemokine 16, Chemokine (C X C motif) ligand 16, CXC chemokine ligand 16, CXCLG16, DN 491F10.6, Scavenger receptor for phosphatidylserine and oxidized low density lipoprotein, SCYB16, Small inducible cytokine B, Small inducible cytokine B16, Small inducible cytokine B16 precursor, SR PSOX, SR PSOX/CXCL16 scavenger receptor for phosphatidylserine and oxidized low density lipoprotein, SRPSOX, Transmembrane chemokine CXCL16, Zinc finger, MYND-type containing 15, Zmynd15
Detection Kit Type:	ELISA Kit
Detection Range:	93.7 pg/ml - 6000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CXCL16
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: N49-P137
Purity/Specificity:	Natural and recombinant human CXCL16. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9H2A7 • NCBI - NP_001094282.1 • GeneID - 58191 • KOA0434 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 6000pg/ml, 3000pg/ml, 1500pg/ml, 750pg/ml, 419pg/ml, 187.5pg/ml, 93.7pg/ml human CXCL16 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 CXCL16 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.
ELISA:	93.7pg/ml-6000pg/ml
Other:	Date of Expiration: 2-8° C - 02/11/2024 -20° C - 08/11/2024

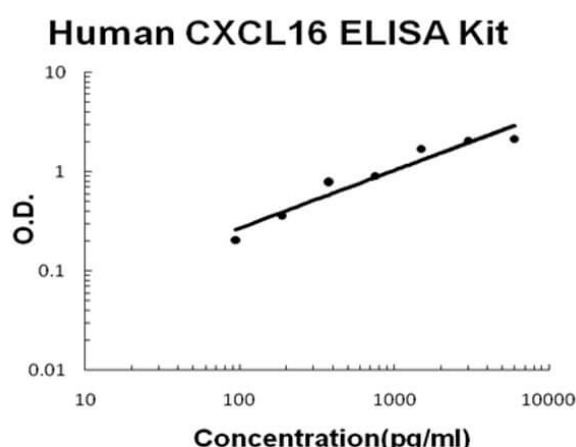
Formulation

Concentration:	1 Kit
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



ELISA

Human CXCL16 AccuSignal ELISA Kit standard curve. Assay Range: 93.7pg/ml-6000pg/ml. Sensitivity: <10pg/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.