

Datasheet for ABIN1889430  
**CRLF2 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	CRLF2
Binding Specificity:	AA 25-231
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CRLF2/TSLP R
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: G25-K231
Specificity:	Expression system for standard: NSO Immunogen sequence: G25-K231
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

Target:	CRLF2
Alternative Name:	CRLF2 ( <a href="#">CRLF2 Products</a> )
Background:	<p>Protein Function: Receptor for thymic stromal lymphopoietin (TSLP). Forms a functional complex with TSLP and IL7R which is capable of stimulating cell proliferation through activation of STAT3 and STAT5. Also activates JAK2 (By similarity). Implicated in the development of the hematopoietic system. .</p> <p>Background: Cytokine receptor-like factor 2, also known as TSLPR or CRL2, is a protein that in humans is encoded by the CRLF2 gene. It is mapped to Xp22.33. The protein encoded by this gene is a receptor for thymic stromal lymphopoietin(TSLP). Together with the interleukin 7 receptor(IL7R), the encoded protein and TSLP activate STAT3, STAT5, and JAK2 pathways, which control processes such as cell proliferation and development of the hematopoietic system. Two transcript variants encoding different isoforms have been found for this gene. In addition to it, it has been found that rearrangement of CRLF2 and JAK mutation together contribute to leukemogenesis in B-progenitor ALL.</p> <p>Synonyms: Cytokine receptor-like factor 2,Cytokine receptor-like 2,IL-XR,Thymic stromal lymphopoietin protein receptor,TSLP receptor,CRLF2,CRL2, ILXR, TSLPR,</p> <p>Full Gene Name: Cytokine receptor-like factor 2</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	64109
UniProt:	<a href="#">Q9HC73</a>

## Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the type I cytokine receptor family. Type 5 subfamily. Tissue Specificity: Expressed in heart, skeletal muscle, kidney and adult and fetal liver. Primarily

## Application Details

expressed in dendrites and monocytes. Weakly expressed in T-cells.

Plate: Pre-coated

Protocol: human CRLF2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CRLF2 has been precoated onto 96-well plates. Standards(NSO, G25-K231) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CRLF2 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 CRLF2 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human CRLF2 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CRLF2 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 2125, Standard deviation: 110.5, CV(%): 5.2
- Sample 2: n=16, Mean(pg/ml): 5240, Standard deviation: 335.36, CV(%): 6.4
- Sample 3: n=16, Mean(pg/ml): 7884, Standard deviation: 536, CV(%): 6.8,
- Sample 1: n=24, Mean(pg/ml): 1854, Standard deviation: 116.8, CV(%): 6.3
- Sample 2: n=24, Mean(pg/ml): 4760, Standard deviation: 337.96, CV(%): 7.1
- Sample 3: n=24, Mean(pg/ml): 6953, Standard deviation: 542, CV(%): 7.8

Restrictions: For Research Use only

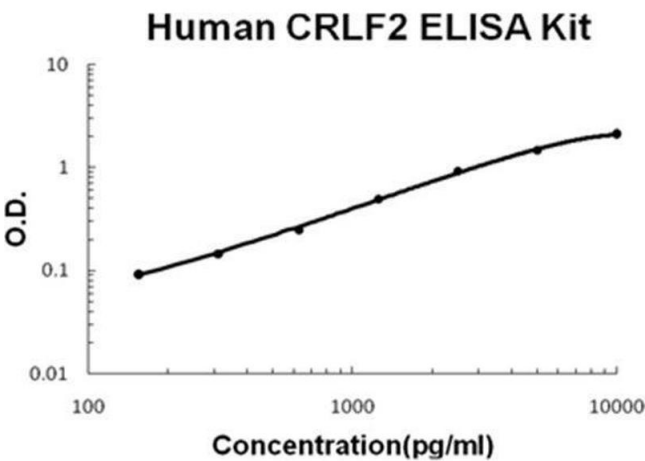
## Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



**ELISA**

**Image 1.** Human CRLF2/TSLP R PicoKine ELISA Kit standard curve