

Datasheet for ABIN1672830  
**FCER2 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	FCER2
Binding Specificity:	AA 48-321
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD23/FCER2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: D48-S321
Specificity:	Expression system for standard: NSO Immunogen sequence: D48-S321
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:	FCER2
Alternative Name:	FCER2 ( <a href="#">FCER2 Products</a> )
Background:	<p>Background: CD23, also known as Fc epsilon RII, or Fc<math>\epsilon</math>RII, is the "low-affinity" receptor for IgE, an antibody isotype involved in allergy and resistance to parasites, and is important in regulation of IgE levels. There are two forms of CD23: CD23a and CD23b. CD23a is present on follicular B cells, whereas CD23b requires IL-4 to be expressed on T-cells, monocytes, Langerhans cells, eosinophils, and macrophages. As part of a mapping of multiple probes to specific bands on chromosome 19 by fluorescence in situ hybridization, the FCE2 gene was assigned to 19p13.3. CD23(FCE2) is a key molecule for B-cell activation and growth. It is the low-affinity receptor for IgE. The truncated molecule can be secreted, then functioning as a potent mitogenic growth factor.</p> <p>Synonyms: Low affinity immunoglobulin epsilon Fc receptor ,FCER2 ,</p> <p>Full Gene Name: Fc fragment of IgE, low affinity II, receptor for (CD23)</p>
Gene ID:	2208
UniProt:	<a href="#">K3W4U1</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</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: Contains C-type lectin domain.
Plate:	Pre-coated
Protocol:	human CD23 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD23 has been precoated onto 96-well plates. Standards(NSO, D48-S321) and test samples are added to the wells, a

## Application Details

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biotinylated detection polyclonal antibody from goat specific for CD23 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 CD23 amount of sample captured in plate.

Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human CD23 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, plasma( heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CD23 standard solution and each sample be measured in duplicate.
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Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(pg/ml): 132, Standard deviation: 11.35, CV(%): 8.6</li><li>• Sample 2: n=16, Mean(pg/ml): 288, Standard deviation: 18.72, CV(%): 6.5</li><li>• Sample 3: n=16, Mean(pg/ml): 589, Standard deviation: 43, CV(%): 7.3,</li><li>• Sample 1: n=24, Mean(pg/ml): 139, Standard deviation: 12.79, CV(%): 9.2</li><li>• Sample 2: n=24, Mean(pg/ml): 293, Standard deviation: 24.61, CV(%): 8.4</li><li>• Sample 3: n=24, Mean(pg/ml): 602, Standard deviation: 45.75, CV(%): 7.6</li></ul>
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Restrictions:	For Research Use only
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## Handling

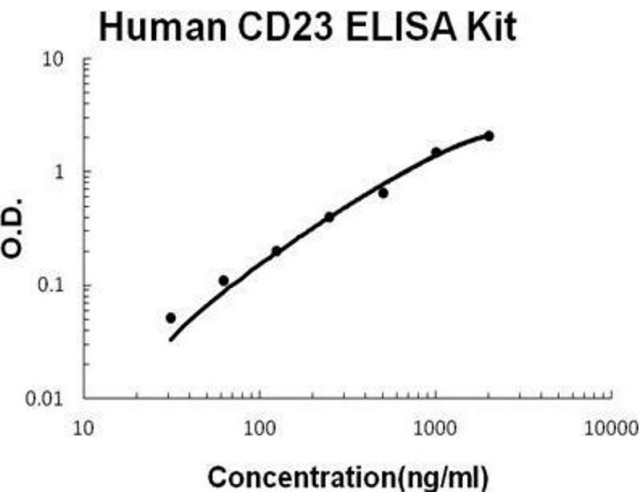
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Handling Advice:	Avoid multiple freeze-thaw cycles.
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Storage:	-20 °C, 4 °C
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Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
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Expiry Date:	12 months
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**ELISA**

**Image 1.** Human CD23/FCER2 PicoKine ELISA Kit standard curve