

Mouse CD23/FCER2 PicoKine ELISA Kit | Fcer2a elisa kit

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CATALOG #
AAA46130

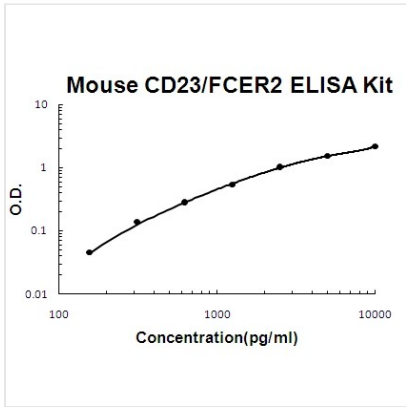
REACTIVITY
Mouse

PRODUCT SYNONYMS

CD23/FCER2 PicoKine; Mouse CD23/FCER2 PicoKine ELISA Kit; Low affinity immunoglobulin epsilon Fc receptor; BLAST 2; BLAST-2; C-type lectin domain family 4 member J; CD23; CD23 antigen; CD23A; CLEC4J; Fc fragment of IgE low affinity II receptor for (CD23); Fc-epsilon-RII; FCE2; Fcer2; FCER2_HUMAN; IGEBF; Immunoglobulin E-binding factor; Low affinity immunoglobulin epsilon Fc receptor soluble form; Lymphocyte IgE receptor; Fc fragment of IgE; low affinity II; receptor for (CD23); Fcer2a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse CD23
Sequence Length	330
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Sample	For quantitative detection of mouse CD23 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, E50-P331
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse CD23 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse CD23 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 485 1882 8430 597 2347 9105 Standard deviation 24.25 105.40 522.66 42.39 185.41 783.03 CV(%) 5.0 5.6 6.2 7.1 7.9 8.6
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.021 0.045 0.137 0.279 0.537 1.009 1.503 2.141
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Mouse CD23/FCER2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for Fcer2a elisa kit	Principle of the assay: Mouse CD23 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD23 has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: E50-P331) and test samples are added to the wells, a 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 mouse CD23 amount of sample captured in plate. Background: CD23, also known as Fc epsilon RII, or FcϵRII, 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 CD23 gene was assigned to 19p13.3. And 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	359339166
NCBI GeneID	14128
NCBI Accession #	NP_001240666.1
NCBI GenBank Nucleotide #	NM_001253737.1
UniProt Accession #	P20693; Q61556; Q61557
Molecular Weight	37,487 Da
NCBI Official Full Name	low affinity immunoglobulin epsilon Fc receptor isoform B
NCBI Official Synonym Full Names	Fc receptor, IgE, low affinity II, alpha polypeptide
NCBI Official Symbol	Fcer2a
NCBI Official Synonym Symbols	CD23; Fce2; Fcer2; Ly-42
NCBI Protein Information	low affinity immunoglobulin epsilon Fc receptor
UniProt Protein Name	Low affinity immunoglobulin epsilon Fc receptor
UniProt Gene Name	Fcer2

UniProt Synonym Gene Names	Fcer2a
UniProt Entry Name	FCER2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/cd23-fcer2-picokine/46130>