

Rabbit anti-Mouse CD23 Monoclonal Antibody | anti-FCER2 antibody

Recombinant Anti-CD23 Antibody, Rabbit Monoclonal

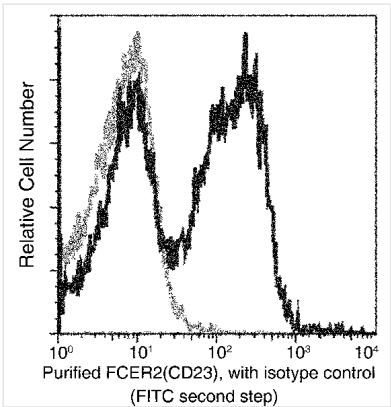
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257213	Rabbit	Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD23; Monoclonal Antibody; Recombinant Anti-CD23 Antibody; Rabbit Monoclonal; CD23/FCER2 Antibody; Rabbit MAb; Fc fragment of IgE receptor II; Anti-CD23 Antibody; Anti-Fce2 Antibody; Anti-Fcer2 Antibody; Anti-Fcer2a Antibody; Anti-Ly-42 Antibody; anti-FCER2 antibody

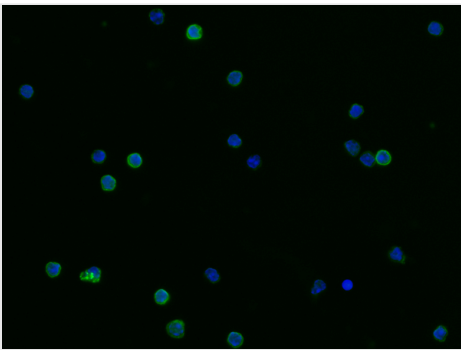
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	007
Specificity	Mouse CD23/FCER2
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FCER2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse CD23/FCER2 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CD23/FCER2 (rM CD23/FCER2).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Mouse FCER2(CD23) expression on BABL/c splenocytes. Cells were stained with purified anti-Mouse FCER2(CD23), then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of mouse FCER2 in mouse splenocytes. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse FCER2 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-FCER2 antibody	Fc fragment of IgE, low affinity II, receptor for (CD23) or CD23 antigen is a member of the cluster of differentiation family. The cluster of differentiation (cluster of designation) (often abbreviated as CD) is a protocol used for the identification and investigation of cell surface molecules present on white blood cells initially but found in almost any kind of cell of the body, providing targets for immunophenotyping of cells. Physiologically, CD molecules can act in numerous ways, often acting as receptors or ligands (the molecule that activates a receptor) important to the cell. A signal cascade is usually initiated, altering the behavior of the cell (see cell signaling). Some CD proteins do not play a role in cell signaling, but have other functions, such as cell adhesion. CD23/FCER2 is a B-cell specific antigen, and a low-affinity receptor for IgE. It has essential roles in B cell growth and differentiation, and the regulation of IgE production. This protein also exists as a soluble secreted form, then functioning as a potent mitogenic growth factor. Increased levels of soluble CD23/FCER2 cause the recruitment of non-sensitised B-cells in the presentation of antigen peptides to allergen-specific B-cells, therefore increasing the production of allergen specific IgE. IgE, in turn, is known to upregulate the cellular expression of CD23 and Fc epsilon RI (high-affinity IgE receptor).
Product Categories/Family for anti-FCER2 antibody	Fc Receptors ITIM/ITAM Immunoreceptors and Related Molecules
References	Aubry JP, et al. (1992) CD21 is a ligand for CD23 and regulates IgE production. Nature. 358(6386): 505-7. Punnonen J, et al. (1993) Interleukin 13 induces interleukin 4-independent IgG4 and IgE synthesis and CD23 expression by human B cells. Proc Natl Acad Sci U S A. 90(8): 3730-4. Yu P, et al. (1994) Negative feedback regulation of IgE synthesis by murine CD23. Nature. 369(6483): 753-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18476522
NCBI GeneID	14128
UniProt Accession #	P20693; Q61556; Q61557
Molecular Weight	37,648 Da
NCBI Official Full Name	Fc epsilon receptor II subtype b variant b delta 6
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; FC epsilon RII; fc-epsilon-RII; lymphocyte IgE receptor; low-affinity IgE 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://www.aaabiotech.com/monoclonal/cd23-antibody-clone-007-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/257213>