

Anti-CD79a Antibody [C1-E8]

EM1902-29



Product Type:	Mouse monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat, Mouse
Applications:	WB, FC
Molecular Wt:	Predicted band size: 25 kDa
Clone number:	C1-E8

Description: Cluster of differentiation CD79A also known as B-cell antigen receptor complex-associated protein alpha chain and MB-1 membrane glycoprotein, is a protein that in humans is encoded by the CD79A gene. The CD79a protein together with the related CD79b protein, forms a dimer associated with membrane-bound immunoglobulin in B-cells, thus forming the B-cell antigen receptor (BCR). This occurs in a similar manner to the association of CD3 with the T-cell receptor, and enables the cell to respond to the presence of antigens on its surface. It is associated with agammaglobulinemia-3. CD79a plays multiple and diverse roles in B cell development and function. The CD79a/b heterodimer associates non-covalently with the immunoglobulin heavy chain through its transmembrane region, thus forming the BCR along with the immunoglobulin light chain and the pre-BCR when associated with the surrogate light chain in developing B cells. Association of the CD79a/b heterodimer with the immunoglobulin heavy chain is required for surface expression of the BCR and BCR induced calcium flux and protein tyrosine phosphorylation. Genetic deletion of the transmembrane exon of CD79A results in loss of CD79a protein and a complete block of B cell development at the pro to pre B cell transition. Similarly, humans with homozygous splice variants in CD79A predicted to result in loss of the transmembrane region and a truncated or absent protein display agammaglobulinemia and no peripheral B cells.

Immunogen: Synthetic peptide within mouse CD79a aa 100-200.

Positive control: Rat spleen tissue lysates, Daudi.

Subcellular location: Cell membrane, Membrane

Database links: SwissProt: P11912 Human | P11911 Mouse | 100913063 Rat

Recommended Dilutions:

WB 1:500-1:1,000

FC 1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

Fig1: Western blot analysis of CD79a on rat spleen tissue lysates with Mouse anti-CD79a antibody (EM1902-29) at 1/1,000 dilution.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 25 kDa

Observed band size: 40 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM1902-29) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:150,000 dilution was used for 1 hour at room temperature.

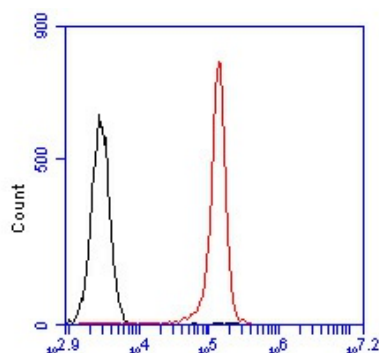
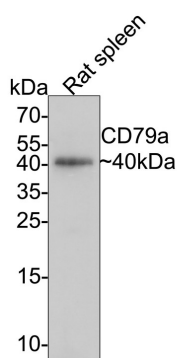


Fig2: Flow cytometric analysis of CD79a was done on Daudi cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1902-29, 1/100) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated goat anti-mouse IgG Secondary antibody at 1/500 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Luisiri P.et.al.Cooperativity and segregation of function within the Ig-alpha/beta heterodimer of the B cell antigen receptor complex.J. Biol. Chem. 271:5158-5163(1996).

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