

## Anti-Hu CD79a Purified Monoclonal Antibody

Catalog Number: M01047-4

### About CD79A

CD79a (Ig alpha, MB1) forms disulfide-linked heterodimer with CD79b (Ig beta). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific receptor (BCR). CD79a and b are the first components of BCR that are expressed developmentally. They appear on pro-B cells in association with the endoplasmic reticulum chaperone calnexin. Subsequently, in pre-B cells, CD79 heterodimer is associated with lambda5-VpreB surrogate immunoglobulin and later with antigen-specific surface immunoglobulins. At the plasma cell stage, CD79a is present as an intracellular component. CD79a/b complex interacts with Src-family tyrosine kinase Lyn, which phosphorylates its cytoplasmic ITAM motives to form docking sites for downstream signaling.

### Overview

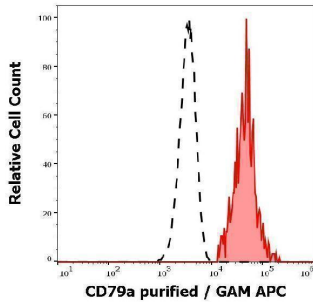
Product Name	Anti-Hu CD79a Purified Monoclonal Antibody
Reactive Species	Chicken, Cow, Dog, Guinea pig, Human, Mouse, Pig, Rabbit, Rat, Primate, Horse
Description	Boster Bio Anti-Hu CD79a Purified Monoclonal Antibody (Catalog# M01047-4). Tested in Flow Cytometry, IP, WB, IHC-P application(s). This antibody reacts with Dog, Chicken, Rabbit, Guinea pig, Horse, Cow, Mouse, Rat, Pig, Primate, Human.
Application	Flow Cytometry, IP, IHC-P, WB
Clonality	Monoclonal HM47
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P11912

### Technical Details

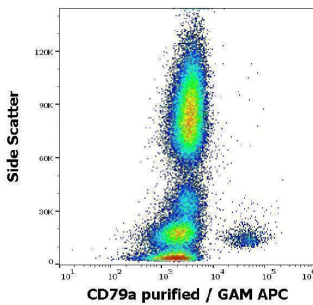
Immunogen	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a. The mouse monoclonal antibody HM47 reacts with intracellular domain of CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml, intracellular staining. Western blotting: 1-2 ug/ml.

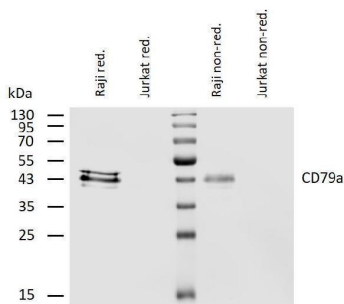
## Anti-Hu CD79a Purified Monoclonal Antibody (M01047-4) Images



Separation of human CD79a positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (concentration in sample 4 µg/ml, GAM APC).



Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (concentration in sample 4 µg/ml, GAM APC).



Western blotting analysis of human CD79a using mouse monoclonal antibody HM47 on lysates of Raji and Jurkat (negative control) cell line under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-CD79a monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD79a was detected around 43 kDa.

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