

Mouse CD79a Monoclonal Antibody | anti-CD79a antibody

Anti-Hu CD79a APC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128598	Mouse	Dog, Chicken, Rabbit, Guinea pig, Horse, Cow, Mouse, Rat, Pig, Non-human primates, Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD79a; Monoclonal Antibody; Anti-Hu CD79a APC; CD79a molecule; BCR alpha; Ig-alpha; MB-1; IGA; anti-CD79a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Dog, Chicken, Rabbit, Guinea pig, Horse, Cow, Mouse, Rat, Pig, Non-human primates, Human
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	HM47
Specificity	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.
Purity/Purification	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Sequence Length	226
Applicable Applications for anti-CD79a antibody	FCM/FACS (Flow Cytometry)
Immunogen	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a
Conjugation	APC
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.

ADDITIONAL INFORMATION

Related Product Information for anti-CD79a antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502685
NCBI GeneID	973

NCBI Accession #	NP_001774.1
NCBI GenBank Nucleotide #	NP_001774.1
UniProt Accession #	P11912
NCBI Official Full Name	B-cell antigen receptor complex-associated protein alpha chain isoform 1
NCBI Official Synonym Full Names	CD79a molecule
NCBI Official Symbol	CD79A
NCBI Official Synonym Symbols	IGA; MB-1
NCBI Protein Information	B-cell antigen receptor complex-associated protein alpha chain
UniProt Protein Name	B-cell antigen receptor complex-associated protein alpha chain
UniProt Gene Name	CD79A
UniProt Synonym Gene Names	IGA; MB1
UniProt Entry Name	CD79A_HUMAN

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/monoclonal/cd79a-antibody-clone-hm47-flow-cytometry-elisa/128598>