

Summary

# ARG54257 anti-CD79a antibody [HM47] (APC)

Package: 50 tests Store at: 4°C

Sammary		
Product Description	APC-conjugated Mouse Monoclonal antibody [HM47] recognizes CD79a	
Tested Reactivity	Hu, Ms, Rat, Bov, Chk, Dog, Gpig, Hrs, NHuPrm, Pig, Rb	
Tested Application	FACS	
Specificity	The clone 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.	
Host	Mouse	
Clonality	Monoclonal	
Clone	HM47	
Isotype	lgG1	
Target Name	CD79a	
Species	Human	
Immunogen	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a	
Conjugation	APC	
Alternate Names	Surface IgM-associated protein; B-cell antigen receptor complex-associated protein alpha chain; Membrane-bound immunoglobulin-associated protein; Ig-alpha; MB-1 membrane glycoprotein; MB-1; IGA; CD antigen CD79a	

### **Application Instructions**

Application table	Application	Dilution
	FACS	10 μl / 10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### Properties

Liquid	
The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.	
PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA	
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Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be	

gently mixed before use.

For laboratory research only, not for drug, diagnostic or other use.

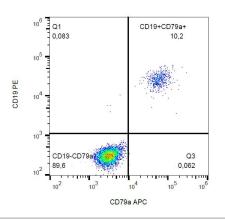
# Bioinformation

Note

Gene Symbol Gene Full Name Background	CD79A CD79a molecule, immunoglobulin-associated alpha CD79a: The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (lg). Surface Ig non-covalently associates with two other proteins, Ig- alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This
Function	gene encodes the Ig-alpha protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008] CD79a is required in cooperation with CD79b for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate
Highlight	BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B-cells. [UniProt]   Related products:   CD79a antibodies; Anti-Mouse IgG secondary antibodies;   Related news:   Tumor-Infiltrating Lymphocytes (TILs)
Research Area Calculated Mw PTM	Cancer antibody; Developmental Biology antibody; Immune System antibody 25 kDa Phosphorylated on tyrosine, serine and threonine residues upon B-cell activation. Phosphorylation of tyrosine residues by Src-family kinases is an early and essential feature of the BCR signaling cascade. The phosphorylated tyrosines serve as docking sites for SH2-domain containing kinases, leading to their activation which in turn leads to phosphorylation of downstream targets. Phosphorylated by LYN. Phosphorylation of serine and threonine residues may prevent subsequent tyrosine phosphorylation. Arginine methylation in the ITAM domain may interfere with the binding of SYK. It promotes signals

leading to B-cell differentiation (By similarity).

#### Images



#### ARG54257 anti-CD79a antibody [HM47] (APC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG54257 anti-CD79a antibody [HM47] (APC) and anti-CD19 antibody (PE).