

Product datasheet

info@arigobio.com

ARG62427 anti-CD79a antibody [HM47/A9]

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [HM47/A9] recognizes CD79a

Tested Reactivity Hu, Ms, Rat, Bov, Mk, Pig **Tested Application** FACS, ICC/IF, IHC-P, WB

Specificity This antibody labels precursor B-cell acute lymphoblastic leukemia samples, making it the most reliable

> B-cell marker for this disorder. In a study by Mason, et al on a total of 454 paraffin-embedded tissues, it reacted with 97% of B-cell neoplasms. We have data to indicate that this antibody may not cross react with Opossum. However, this has not been conclusively tested and expression levels may vary in certain

cell lines/tissues.

Host Mouse

Clonality Monoclonal Clone HM47/A9

Isotype lgG1

Target Name CD79a

Species Human

Synthetic peptide (GTYQDVGSLNIADVQ), corresponding to C terminal amino acids 208-222 of Human Immunogen

CD79a

Conjugation Un-conjugated

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	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	WB	0.5 - 2 μg/ml
Application Note	IHC: 0.5 - 1 µg/ml FACS: 0.01µg for 106 cells	

WB: 0.5 - 1 µg/ml

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Form	Liquid

arigo, nuts about antibodies www.arigobio.com 1/2 Purification Protein G purified

Buffer 10mM PBS (pH 7.4), 0.2% BSA and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Stabilizer 0.2% BSA

Concentration 0.2 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

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

Bioinformation

Gene Symbol CD79A
Gene Full Name CD79a molecule, immunoglobulin-associated alpha

Background CD79a: The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific

component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Igalpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This 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]

Function 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 BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR

signaling during development of immature B-cells. [UniProt]

Highlight Related products:

CD79a antibodies; Anti-Mouse IgG secondary antibodies;

Related news: <u>Lymphoma</u>

Tumor-Infiltrating Lymphocytes (TILs)

Research Area Calculated Mw PTM

www.arigobio.com

Cancer antibody; Developmental Biology antibody; Immune System antibody

arigo, nuts about antibodies

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).