OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

SM1161F Monoclonal Antibody to CD79a - FITC

Alternate names: B-Cell marker, B-cell antigen receptor complex-associated protein alpha-chain, IGA, MB-1 membrane glycoprotein, MB1, Membrane-bound immunoglobulin-associated protein, Surface IgM-associated protein

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: A disulfide-linked heterodimer, consisting of CD79a / mb1 and CD79b / B29 polypeptides, is non-covalently associated with membrane bound immunoglobulins on B cells to constitute the B cell Ag receptor. CD79a first appears at pre B cell stage and persists until the plasma cell stage where it is found as an intracellular component. CD79a is found in the majority of acute leukemias of precursor B cell type, in B cell lines, B cell lymphomas, and in some myelomas. The CD79a/b heterodimer interacts with at least one tyrosine kinase (Lyn). Induction of tyrosine kinase activity after antigen binding causes phosphorylation of the CD79a/b dimer, and also of other molecules, thereby initiating intracellular signaling.

Uniprot ID: P11912

NCBI: NP_001774.1

GeneID: 973

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10F (for use in human samples)

Clone: ZL7-4

Immunogen: IgM complex isolated from Daudi cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Format:
State: Liquid purified IgG fraction.
Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow Cytometry: Use 10 µl of neat antibody to label 1x10e6 cells in 100µl. We recommend incubation times of at least 30 minutes with this antibody.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with CD79a positive cells by flow cytometry.
This clone has been reported to be useful in distinguishing B-CLL from mantle cell lymphoma in flow cytometric assays.
Species: Human.
Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Zhang L, French RR, Chan HT, O'Keefe TL, Cragg MS, Power MJ, et al. The development of anti-CD79 monoclonal antibodies for treatment of B-cell neoplastic disease. Ther Immunol. 1995 Aug;2(4):191-202. PubMed PMID: 9358611.
2. Bell PB, Rooney N, Bosanquet AG. CD79a detected by ZL7.4 separates chronic lymphocytic leukemia from mantle cell lymphoma in the leukemic phase. Cytometry. 1999 Jun 15;38(3):102-5. PubMed PMID: 10397328.

Pictures:

Staining of RAMOS cells with Mouse Anti Human CD79a-FITC (SM1161F/FT).