

CD79a Monoclonal Antibody (SP18)

Catalog Number MA5-16344

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	1:100
Clone	SP18	Immunohistochemistry (Paraffin) (IHC (P))	1:100
Immunogen	Synthetic peptide derived from N-terminus region of human CD79a protein.	Western Blot (WB)	1:1,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:100
Form	Liquid	Published Applications	
Concentration	Conc. Not Determined	Immunocytochemistry (ICC/IF)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is tonsil or B cell lymphoma.

Background/Target Information

CD79a is a disulphide-linked heterodimer that includes B29 (CD79b) polypeptide. CD79a is a B lymphocyte antigen receptor with an antigen-specific surface component Ig (immunoglobulin) that associates with Ig-alpha and Ig-beta, necessary elements for the expression and function of the B-cell antigen 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. It is not present in myeloid or T cell lines. Diseases associated with CD79a include Agammaglobulinemia 3 and Agammaglobulinemia, Non-Bruton type.

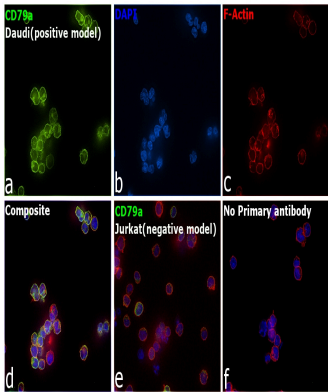
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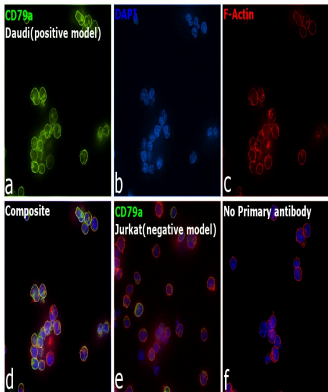
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Product Images For CD79a Monoclonal Antibody (SP18)



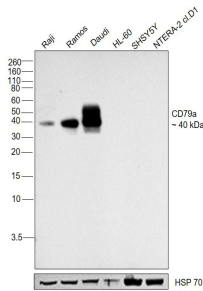
CD79a Antibody (MA5-16344) in ICC/IF

Immunofluorescence analysis of CD79a was performed using 70% confluent log phase Daudi cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with CD79a Monoclonal Antibody (SP18) (Product # MA5-16344) at 1:100 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1: 2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing plasma membrane and cytoplasmic localization. Panel e represents Jurkat cells showing no expression of CD79a. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



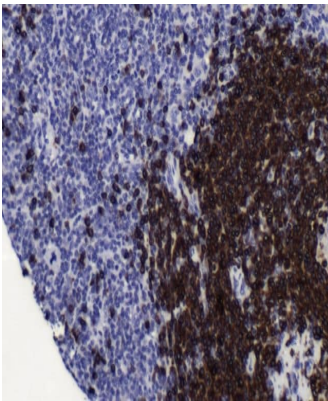
CD79a Antibody (MA5-16344)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-CD79a Monoclonal Antibody (SP18) (Product # MA5-16344), shows plasma membrane and cytoplasmic localization in Daudi cells as compared to Jurkat cells which is reported to be low to negative for CD79a expression. {RE}



CD79a Antibody (MA5-16344)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of CD79a was observed in Raji, Ramos, Daudi in comparison to SHSY5Y and NTERA-2 cl.D1 using Anti-CD79a Monoclonal Antibody (SP18) (Product # MA5-16344) in Western Blot. {RE}



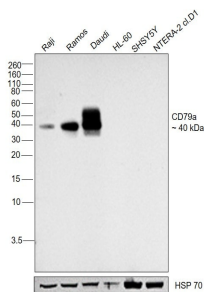
CD79a Antibody (MA5-16344) in IHC

Immunohistochemical analysis of CD79a using anti-CD79a Monoclonal Antibody (Product # MA5-16344) in B Cell Lymphoma Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:200.

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CD79a Antibody (MA5-16344) in WB

Western blot was performed using Anti-CD79a Monoclonal Antibody (SP18) (Product # MA5-16344) and a 40kDa band corresponding to CD79a was observed across cell lines tested. Whole cell extracts (30 µg lysate) of Raji (Lane 1), Ramos (Lane 2), Daudi (Lane 3), HL-60 (Lane 4), SH-SY5Y (Lane 5), NTERA-2 cl.D1 (Lane 6) were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel (Product # NP0342BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036,1:5000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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PubMed References For CD79a Monoclonal Antibody (SP18)

1 Immunocytochemistry References

Species / Dilution	Summary
Human / 1:100	MA5-16344 was used in immunocytochemistry to report on a case of solitary extramedullary plasmacytoma of the thyroid
	Diagnostic cytopathology (2014; 42: 964)
	"Liquid-based cytologic findings of solitary extramedullary plasmacytoma in thyroid: a case report identified with fine-needle aspiration cytology." Author(s):Lee CH,Jung YY,Chung YR,Ryu HS PubMed Article URL:http://dx.doi.org/10.1002/dc.23086

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