

# CD79a Monoclonal Antibody (24C2.5), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	24C2.5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2043846

Applications	Tested Dilution	Publications
Western Blot (WB)	1-10 µg/mL	1 Publication
Immunohistochemistry (IHC)	Assay-Dependent	-

## Product Specific Information

**Description:** This 24C2.5 monoclonal antibody reacts with the intracellular tail of mouse CD79a (also known as Ig alpha or mb-1), a signaling component of the B cell receptor (BCR). CD79a heterodimerizes with CD79b (Ig beta, B29), and together with surface Ig, make up the BCR. Both CD79 subunits consist of a single extracellular Ig domain, a transmembrane domain, and an intracellular signaling domain. CD79a is expressed almost exclusively on B cells, as well as in most B lineage acute lymphoblastic leukemias. The cytoplasmic domain of CD79a contains immunoreceptor tyrosine-based activation motifs (ITAMs), which constitute the signal transducing portions of the BCR. Tyrosine phosphorylation of these ITAMs by Syk and Lyn initiates numerous signaling cascades, resulting in B cell activation, proliferation, and differentiation.

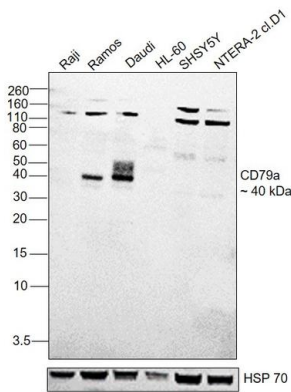
**Applications Reported:** This 24C2.5 antibody has been reported for use in immunoblotting (WB).

**Applications Tested:** This 24C2.5 antibody has been tested by western blot of reduced mouse spleen lysates. This can be used at 1-10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

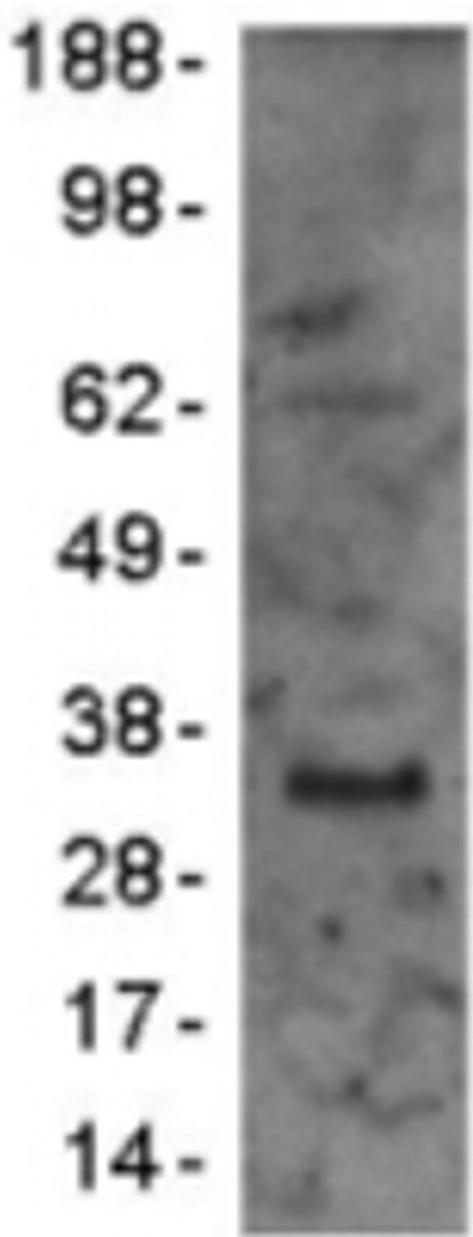
**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD79a Antibody (14-0791-82) in WB**

Western blot was performed using Anti-CD79a Monoclonal Antibody (24C2.5), eBioscience™ (Product # 14-0791-82) 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 (1:500) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:5000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



**CD79a Antibody (14-0791-82) in WB**

Immunoblotting of reduced mouse splenocytes with 5 µg/mL of Anti-Mouse CD79a Purified. Bands were visualized using Rat Anti-Mouse IgG HRP.

Western Blot (1)

<p>Molecular and cellular biology</p> <p><b>A C-terminal acidic domain regulates degradation of the transcriptional coactivator Bob1.</b></p> <p>"14079182 was used in western blot to investigate the regulation of Bob1 in B cells"</p> <p>Authors: Lindner JM,Wong CS,Möller A,Nielsen PJ</p>	<p>Year</p> <p>2013</p> <p>Species</p> <p>Mouse</p>
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