

## Product Datasheet

### CD79a Rabbit Polyclonal Antibody (orb215922)

|                             |  |
|-----------------------------|--|
| <b>Catalog Number</b>       | orb215922  |
| <b>Category</b>             | Antibodies   |
| <b>Description</b>          | CD79a Rabbit Polyclonal Antibody   |
| <b>Target</b>               | B-cell antigen receptor complex-associated protein alpha chain   |
| <b>Clonality</b>            | Polyclonal   |
| <b>Species/Host</b>         | Rabbit   |
| <b>Isotype</b>              | Rabbit IgG   |
| <b>Conjugation</b>          | Unconjugated   |
| <b>Reactivity</b>           | Human  |
| <b>Form/Appearance</b>      | Lyophilized  |
| <b>Concentration</b>        | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.  |
| <b>Buffer/Preservatives</b> | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| <b>Reconstitution</b>       | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.   |
| <b>Purification</b>         | Immunogen affinity purified.   |
| <b>Immunogen</b>            | E.coli-derived human CD79a recombinant protein (Position: T121-P226). Human CD79a shares 91% amino acid (aa) sequence identity with mouse CD79a.   |

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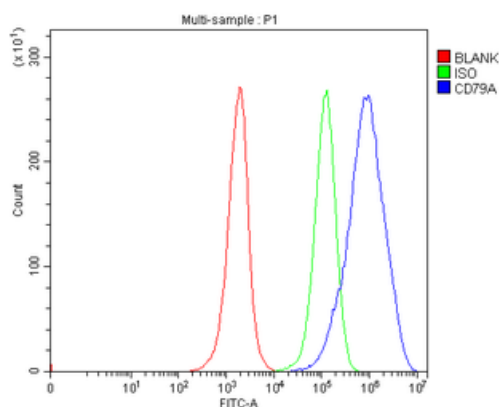
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|                            |  |
|----------------------------|--|
| <b>UniProt ID</b>          | <b>P11912</b>  |
| <b>MW</b>                  | 44 kDa   |
| <b>Tested applications</b> | FC, IF, IHC, WB  |
| <b>Dilution range</b>      | Western blot, 0.1-0.5µg/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5µg/ml, Human Immunofluorescence, 5 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x10 <sup>6</sup> cells, Human |
| <b>Specificity</b>         | No cross reactivity with other proteins.   |
| <b>Cross Reactivity</b>    | No cross-reactivity with other proteins  |
| <b>Antibody Type</b>       | Primary Antibody   |
| <b>Storage</b>             | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.  |
| <b>Note</b>                | For research use only  |
| <b>Expiration Date</b>     | 12 months from date of receipt.  |



Flow Cytometry analysis of Jurkat cells using anti-CD79A antibody. Overlay histogram showing Jurkat cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD79A Antibody (1 µg/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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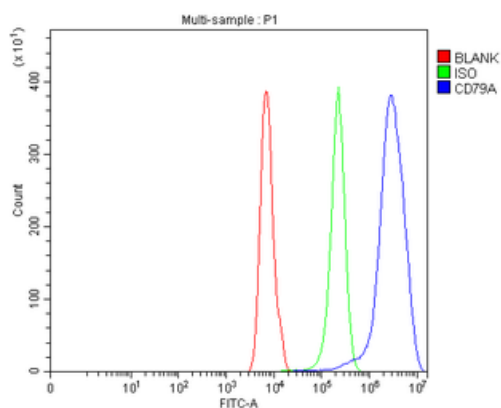
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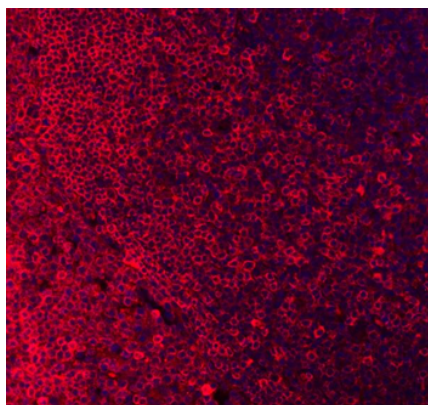
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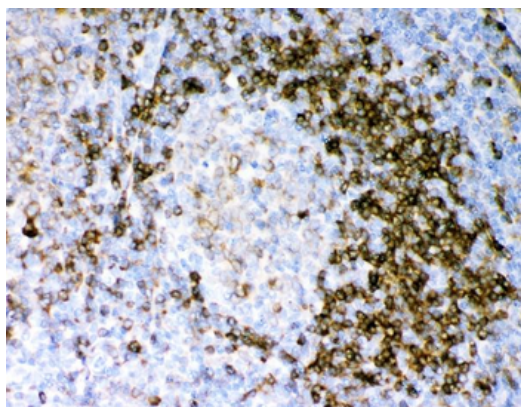
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Flow Cytometry analysis of Ramos cells using anti-CD79A antibody. Overlay histogram showing Ramos cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD79A Antibody (1  $\mu\text{g}/1 \times 10^6$  cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10  $\mu\text{g}/1 \times 10^6$  cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1  $\mu\text{g}/1 \times 10^6$ ) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF analysis of CD79A using anti-CD79A antibody. CD79A was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5  $\mu\text{g}/\text{mL}$  rabbit anti-CD79A Antibody overnight at 4°C. DyLight®550 conjugated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC analysis of CD79A using anti-CD79A antibody. CD79A was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu\text{g}/\text{ml}$  rabbit anti-CD79A Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

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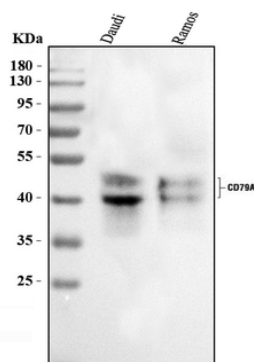
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Western blot analysis of CD79A using anti-CD79A antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Daudi whole cell lysates, Lane 2: human Ramos whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD79A antigen affinity purified polyclonal antibody at 0.5  $\mu\text{g}/\text{mL}$  overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD79A at approximately 44 kDa. The expected band size for CD79A is at 25 kDa.

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