# Mouse CD79A Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6968

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse CD79A in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human CD79A is observed. |
| **Source** | Polyclonal Sheep IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | Chinese hamster ovary cell line CHO-derived recombinant mouse CD79A<br>Leu29-Arg137<br>Accession # P11911 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

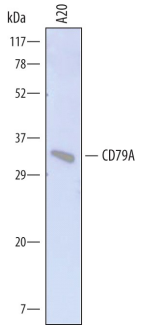
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | See Below |

## DATA

### Western Blot




**Detection of Mouse CD79A by Western Blot.** Western blot shows lysates of A20 mouse B cell lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse CD79A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6968) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD79A at approximately 32-35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

## PREPARATION AND STORAGE

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| **Reconstitution** | Sterile PBS to a final concentration of 0.2 mg/mL. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

CD79A (also known as Mb-1, Igα and B cell antigen receptor complex-associated protein α-chain) is a 30-40 kDa member of the Ig-Superfamily. It is expressed on B cells, and forms a covalent heterodimer with CD79B. This complex interacts noncovalently with membrane Ig, forming the B cell antigen receptor. Within this complex, membrane Ig detects antigen while CD79A:B initiates signaling. CD79A is essential for the differentiation of pre-B cells, and the pre-BCR regulates the surface expression of IL-7R. Mature mouse CD79A is a 192 amino acid (aa) type I transmembrane glycoprotein (aa 29-220). It contains an extracellular region (aa 29-137) with one C2-type Ig-like domain (aa 29-117), and an ITAM-containing cytoplasmic domain (aa 171-199). Mouse CD79A and CD79B share only 22% aa identity. Over aa 29-137, mouse CD79A shares 57% and 80% aa identity with human and rat CD79A, respectively.



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