

DESCRIPTION

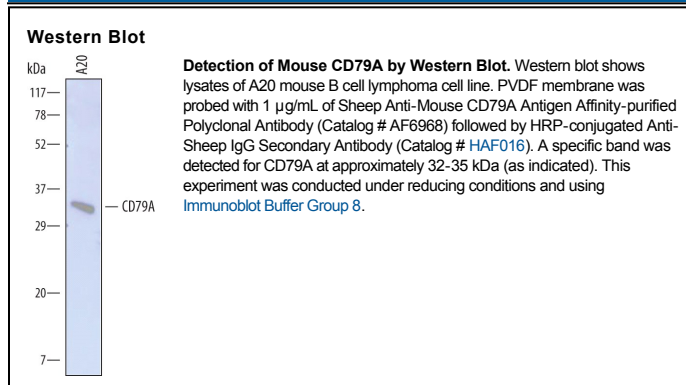
Species Reactivity	Mouse
Specificity	Detects mouse CD79A in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human CD79A is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived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



PREPARATION AND STORAGE

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. *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. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 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.