

DESCRIPTION

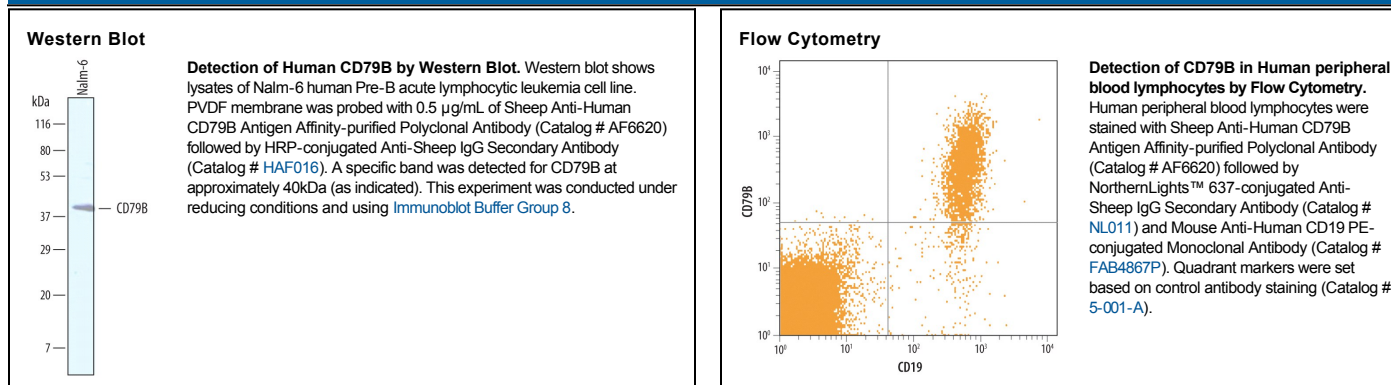
Species Reactivity	Human
Specificity	Detects human CD79B in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse CD29B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster cell line CHO-derived recombinant human CD79B Ala29-Asp159 Accession # P40259
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	0.5 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

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

CD79B (also known as B29, Igβ and B cell antigen receptor complex-associated protein β-chain) is a 36-40 kDa member of the Ig-Superfamily. It is expressed on B cells, and forms a covalent heterodimer with 44-49 kDa CD79A. 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. Mature human CD79B is a 201 amino acid (aa) type I transmembrane glycoprotein (aa 29-229). It contains an extracellular region with one V-type Ig-like domain (aa 38-138) and an ITAM-containing cytoplasmic domain (aa 181-229). There is an alternative splice form that shows a deletion of aa 41-144 and appears after B cell activation. Human CD79A and B share only 26% aa identity. Over aa 29-159, human CD79B shares 54% aa identity with mouse CD79B.