

## DESCRIPTION

|                           |                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                   |
| <b>Specificity</b>        | Detects human CD79B in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse CD79B is observed.                                                  |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                    |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                               |
| <b>Immunogen</b>          | Chinese hamster cell line CHO-derived recombinant human CD79B<br>Ala29-Asp159<br>Accession # P40259                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                                                                                                            |
|                           | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>CyTOF-ready</b>    | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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.

## PRODUCT SPECIFIC NOTICES

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