

Datasheet for ABIN7651586

## Recombinant anti-CD45RB antibody (CF®640R)



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### Overview

|                |                                                                                                                                                                                |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:      | 100 µL                                                                                                                                                                         |
| Target:        | CD45RB                                                                                                                                                                         |
| Reactivity:    | Human                                                                                                                                                                          |
| Host:          | Rabbit                                                                                                                                                                         |
| Antibody Type: | Recombinant Antibody                                                                                                                                                           |
| Clonality:     | Monoclonal                                                                                                                                                                     |
| Conjugate:     | This CD45RB antibody is conjugated to CF®640R                                                                                                                                  |
| Application:   | Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blotting (WB), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | CD45RB (B-Cell Marker) (PTPRC/2877R), CF640R conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen:       | Recombinant full-length human PTPRC protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone:           | PTPRC-2877R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype:         | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Characteristics: | CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these |

## Product Details

isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45RB is expressed on mature B-lymphocytes and the majority of lymphomas and leukemias of B-cell origin. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CD45RB                                                                                                                                                                                                                                                    |
| Alternative Name: | CD45RB                                                                                                                                                                                                                                                    |
| Background:       | Synonyms: B220, CD45R, GP180, Leukocyte common antigen (LCA), Loc, Ly-5, Lyt-4, Protein tyrosine phosphatase receptor type C (PTPRC), Receptor-type tyrosine-protein phosphatase C, T200 glycoprotein<br>Gene Symbol: PTPRC<br>Tissue Expression: B-cells |
| Molecular Weight: | 180-220 kDa                                                                                                                                                                                                                                               |
| Gene ID:          | 5788                                                                                                                                                                                                                                                      |
| UniProt:          | <a href="#">P08575</a>                                                                                                                                                                                                                                    |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Does not react with rat or rhesus monkey. Immunohistology (formalin): 0.5-1.0 µg/mL for 30 minutes at RT. Western Blot 0.5-2 µg/mL. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined by user |
| Comment:           | Positive Control: Raji, Ramos, U-698, or GA-10 cells. Tonsil                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Handling

|         |        |
|---------|--------|
| Format: | Liquid |
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## Handling

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 0.1 mg/mL                                                                                                                            |
| Buffer:            | PBS, 0.1 % BSA, 0.05 % azide                                                                                                         |
| Preservative:      | Sodium azide                                                                                                                         |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.               |
| Handling Advice:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |