

## Product datasheet

### anti-CD10 mouse monoclonal, CB-CALLA, purified

#### Short overview

|                      |                  |
|----------------------|------------------|
| <b>Cat. No.</b>      | 691558           |
| <b>Quantity</b>      | 1 ml (100 µg/ml) |
| <b>Concentration</b> | 100 µg/ml        |

#### Product description

|                      |  |
|----------------------|--|
| <b>Host</b>          | Mouse  |
| <b>Antibody Type</b> | Monoclonal   |
| <b>Isotype</b>       | IgG1 kappa   |
| <b>Clone</b>         | CB-CALLA   |
| <b>Immunogen</b>     | Human PBLs   |
| <b>Formulation</b>   | PBS with 0.02% sodium azide  |
| <b>UniprotID</b>     | P08473 (Human)   |
| <b>Synonym</b>       | Nepriylsin, EC 3.4.24.11, Atriopeptidase, Common acute lymphocytic leukemia antigen, CALLA, Enkephalinase, Neutral endopeptidase 24.11, NEP, Neutral endopeptidase, Skin fibroblast elastase, SFE, CD antigen CD10, MME, EPN |
| <b>Conjugate</b>     | Unconjugated   |
| <b>Purification</b>  | Affinity chromatography  |
| <b>Storage</b>       | 2-8°C  |
| <b>Intended use</b>  | Research use only  |
| <b>Application</b>   | FACS, ICC/IF, IHC  |
| <b>Reactivity</b>    | Human  |

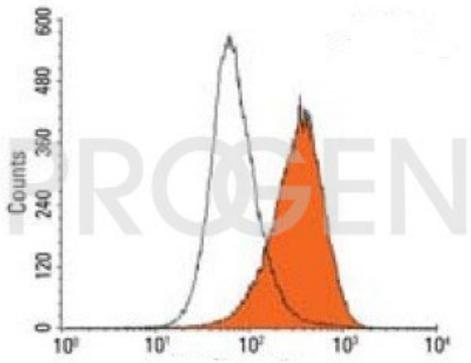
#### Applications

|  |                                    |
|--|------------------------------------|
| <b>Flow Cytometry (FACS)</b>               | 0.5-1.0 µg/million cells in 0.1 ml |
| <b>Immunocytochemistry (ICC)</b>           | 1:100-1:200 (0.5-1.0 µg/ml)        |
| <b>Immunohistochemistry (IHC) - frozen</b> | 1:50-1:100 (1-2 µg/ml)             |

#### Background

CB-CALLA reacts with CD10 or CALLA, a cell surface enzyme with neutral metalloendopeptidase activity, inactivating a variety of biologically active peptides. CD10 is a 100 kDa glycoprotein, expressed on 70% of pre-B ALL cells (common ALL), but also on early lymphoid progenitor cells in bone marrow and fetal liver. Other normal CD10 positive tissues include renal epithelium, fibroblasts and germinal centre B-cells. Density of CD10 antigen has been shown to be related to cell differentiation and may have prognostic value for B-cell lineage acute leukemia. CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.

Positive control: Raji cells, tonsil, small intestine or kidney.



FCM with human peripheral blood lymphocytes (PBL)