



# Anti-IL2RB monoclonal antibody, clone TM-BETA 1 (CABT-48353RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti Mouse CD122 antibody, clone TM-BETA 1 recognizes the murine CD122 cell surface glycoprotein, a 75-85kD molecule also known as interleukin-2 receptor (IL-2R) beta chain. In mouse, CD122 is primarily expressed on natural killer (NK) cells and at lower levels on lymphocyte subsets, monocytes and macrophages. CD122 can associate with the IL-2R alpha chain (CD25) and CD132 to form a functional high affinity receptor complex that binds IL-2. CD132/CD122 heterodimers can also be formed which bind IL-2 with intermediate affinity. IL-2 binding to the IL-2R is important in the generation and differentiation of T lymphocytes and NK cells. Clone TM-beta 1 is reported to block IL-2 high affinity binding to the IL-2R beta receptor. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

|                           |  |
|---------------------------|--|
| <b>Specificity</b>        | IL2RB  |
| <b>Isotype</b>            | IgG2b  |
| <b>Source/Host</b>        | Rat  |
| <b>Species Reactivity</b> | Mouse  |
| <b>Clone</b>              | TM-BETA 1  |
| <b>Conjugate</b>          | Unconjugated   |
| <b>Applications</b>       | FC; IP   |
| <b>Format</b>             | Purified IgG - liquid  |
| <b>Size</b>               | 100 µg   |
| <b>Preservative</b>       | See individual product datasheet   |
| <b>Storage</b>            | in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may |

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

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|---------------------|---|
| Gene Name           | <a href="#">Il2rb interleukin 2 receptor, beta chain [ Mus musculus (house mouse) ]</a>   |
| Official Symbol     | IL2RB   |
| Synonyms            | IL2RB; interleukin 2 receptor, beta chain; p70; CD122; IL15Rbeta; IL-2Rbeta; IL-15Rbeta; IL-2/15Rbeta; interleukin-2 receptor subunit beta; IL-2RB; p70-75; IL-2R subunit beta; IL-2/15 receptor-beta; IL-2 receptor beta chain; IL-15 receptor beta chain; IL- |
| Entrez Gene ID      | <a href="#">16185</a>   |
| Protein Refseq      | <a href="#">NP_032394</a>   |
| UniProt ID          | P16297  |
| Chromosome Location | 15 E; 15 37.52 cM   |
| Pathway             | Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Endocytosis; G beta:gamma signalling through PI3Kgamma; G-protein beta:gamma signalling; GPCR downstream signaling; GPVI-mediated activation cascade; HTLV-I infection;            |
| Function            | cytokine receptor activity; interleukin-2 binding; interleukin-2 receptor activity;   |