

Rat Monoclonal Antibody to Mouse T1/ST2

Catalog Number 101001

For research use only

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| CLONE | DJ8 |
| HOST/ISOTYPE | Rat IgG1 (light chain not isotyped) |
| PRESENTATION | The antibody is supplied in PBS, with 0.2% BSA and 0.1% sodium azide as preservative and purified over protein G-sepharose. The characteristics of each lot are tested by FACS analysis with bone marrow derived mast cells. |
| CONCENTRATION | See vial for actual concentration. |
| SPECIFICITY | This clone recognizes the membrane anchored murine T1M protein on the surface of T helper 2 cells and mast cells. T1M appears on fetal blood derived mast cell progenitors before they express the Fcε RI, on IL-3-dependent bone marrow derived mast cells and on mature peritoneal mast cells. The antibody detects T1S protein consisting only of the extracellular portion of the protein, which is secreted from growth factor and proinflammatory cytokine-stimulated murine fibroblasts. |
| APPLICATION | This antibody allows the identification and purification of murine T helper 2 cells and all forms of murine mast cells. |
| SUGGESTED USAGE | Flow cytometry, immunoprecipitation |
| STORAGE | Store at 2 - 8 °C. |
| EXPIRY DATE | See label on vial. |
| WARNING | This reagent contains 0.1% sodium azide as preservative. Due to potential hazards arising from the build up of this material in pipes, spent reagent should be disposed of with liberal volumes of water. |
| IMMUNIZING ANTIGEN | Eukariotically expressed fusion protein of mouse T1 ectodomain and human immunoglobulin Fc domain. |
| REFERENCES | <ol style="list-style-type: none"> 1. Moritz <i>et al.</i>, 1998. Expression analysis of the soluble and membrane -associated forms of the interleukin-1 receptor-related T1 protein in primary mast cells and fibroblasts <i>Hybridoma</i> 17(2): 107-1162. 2. Moritz <i>et al.</i>, 1998. The interleukin-1 receptor-related T1 antigen is expressed on immature and mature mast cells and on fetal blood mast cell progenitors <i>J. Immunol.</i> 161 (9) 4866- 4874 3. Max Löhnring, Arne Stroehmann <i>et al.</i>, 1998. T1/ST2 is preferentially expressed on murine Th2 cells, independent of interleukin 4, interleukin 5 and interleukin 10, and important for Th2 effector function <i>Immunology</i> 95 (6): 6930-6935 4. Damo Xu <i>et al.</i>, 1998. Selective Expression of a Stable Cell Surface Molecule on Type 2 but Not Type 1 Helper T Cells <i>J. Exp. Med.</i> 187(5): 787-794 |

International

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