

Rat Monoclonal Antibody to Mouse T1/ST2 Biotinylated

Catalog Number 101001B

For research use only

CLONE	DJ8
HOST/ISOTYPE	Rat IgG1 (light chain not isotyped)
PRESENTATION	The biotinylated antibody is supplied in PBS, with 0.1% sodium azide as preservative and purified over protein G-sepharose. The characteristics of each lot are tested by FACS analysis with bonemarrow 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 Fc ϵ 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 Löhning, 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

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