

## Anti-mouse Tim3 mAb

**CATALOG#:** MA-TIM3(ID6)

**QUANTITY:** 0.5 mg

**DESCRIPTION:**

**ISOTYPE AND CLONE:**

**FORMULATION:**

**LOT#:**

**CONCENTRATION:** 0.5 mg/ml

Purified anti-mouse Tim3

Rat IgG1,  $\kappa$ , clone ID6

Anti-CTLA4 mAb is supplied as a frozen liquid comprised of 0.22  $\mu$ m sterile-filtered PBS (PH 7.4, 50 mM Sodium Phosphate, 100 mM Potassium Chloride, 150 mM NaCl) and containing no preservatives.

**STORAGE CONDITIONS:**

Store stock solution at  $<-20^{\circ}\text{C}$ . Store working solution at  $4^{\circ}\text{C}$ . Freeze/Thawing is not recommended.

**PRODUCT STABILITY:**

Product should retain for at least one year after shipping date when stored at  $<-20^{\circ}\text{C}$  and the working solution should retain for at least one week at  $4^{\circ}\text{C}$ .

**PRODUCTION:** Mouse anti-human CTLA4 mAb was purified from serum free tissue culture supernatant of hybridoma cells. Purity was  $>98\%$  by SDS-PAGE. The endotoxin level is  $\leq 0.06$  EU per  $\mu\text{g}$  of mAb.

**INFORMATION:**

Tim-3, a type I transmembrane protein, contains an immunoglobulin and a mucin-like domain in its extracellular portion and a tyrosine phosphorylation motif in its cytoplasmic portion. Tim-3 is preferentially expressed by terminally differentiated CD4+Th1 and CD8+Tc1 cells, but is absent on CD4+Th2 and CD8+Tc2 cells. Tim3 functions to inhibit aggressive Th1-mediated auto- and alloimmune responses. Tim-3 pathway blockade by administration of anti-Tim3 mAb accelerated diabetes in nonobese diabetic mice, caused hyperproliferation of Th1 cells and Th1 cytokine release in an experimental autoimmune encephalomyelitis (EAE) model and prevented acquisition of transplantaion tolerance induced by costimulation blockade (1, 2).

1. Sánchez-Fueyo1, A. et al. The Ig superfamily member Tim-3 inhibits Th1-mediated auto- and allo-immune responses and promotes immunological tolerance. *Nat Immunol* in press(2003).
2. Sabatos, C.A. et al. Interaction of Tim-3 and Tim-3 ligand regulates T helper type 1 responses and induction of peripheral tolerance. *Nat Immunol* 4, 1102-10 (2003).

**This Product is intended for Laboratory Research use only.**

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