

**PE anti-mouse Tim-4**

**Catalog # / Size:** 1250030 / 100 µg  
1250025 / 25 µg

**Clone:** RMT4-54

**Isotype:** Rat IgG2a, κ

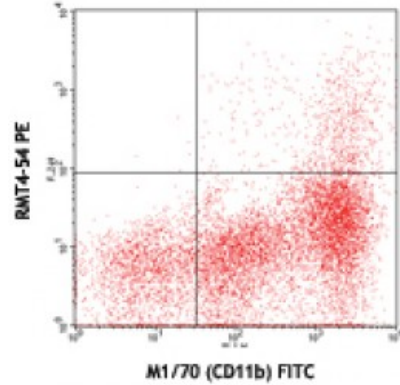
**Immunogen:** Mouse TIM4-Ig fusion protein

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



BALB/c peritoneal macrophages stained with RMT4-54 PE and M1/70 (CD11b) FITC

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats of this clone) include: *in vivo* induction of auto-antibody production<sup>1</sup> and blockade of dendritic cell Tim-42.

**Application References:**

1. Nakayama M, *et al.* 2009. *Blood*. 113:3821. (FA)
2. Yeung MY, *et al.* 2013. *J. Immunol.* 191:4447. (Block)

**Description:** Tim-4 is a transmembrane protein known as T cell immunoglobulin and mucin domain containing protein-4. It is expressed on antigen-presenting cells and not on T cells. Tim-4 binds to Tim-1 to promote T cell proliferation by enhancing cell division and reducing apoptosis. Tim-4 bind to phosphatidylserine through its FG-CC' binding cleft in the N-terminal IgV domain to facilitate the clearance of apoptotic cells or bodies.

**Antigen References:**

1. Kuchroo VK, *et al.* 2008. *Nat. Rev. Immunol.* 8:577
2. Miyanishi M, *et al.* 2007. *Nature* 450:435
3. Rodriguez-Manzanet R, *et al.* 2008. *J. Immunol.* 180:4706