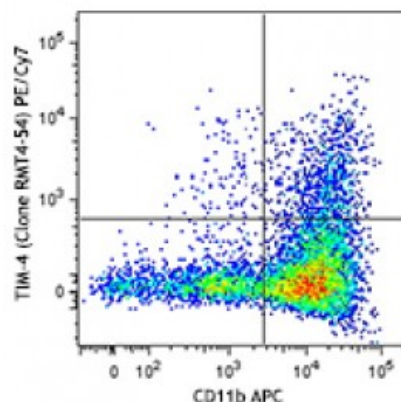


**PE/Cy7 anti-mouse Tim-4**

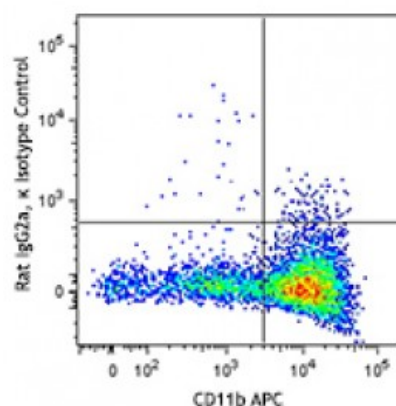
<b>Catalog # / Size:</b>	1250050 / 100 µg 1250045 / 25 µg
<b>Clone:</b>	RMT4-54
<b>Isotype:</b>	Rat IgG2a, κ
<b>Immunogen:</b>	Mouse TIM4-Ig fusion protein
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration:</b>	0.2



Balb/c peritoneal macrophages were stained with CD11b APC and TIM-4 (clone RMT4-54) PE/Cy7 (top) or rat IgG2a, κ PE/Cy7 isotype control (bottom).

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes:</b>	Additional reported applications (for the relevant formats of this clone) include: <i>in vivo</i> induction of auto-antibody production <sup>1</sup> and blockade of dendritic cell Tim-42.
<b>Application References:</b>	1. Nakayama M, <i>et al.</i> 2009. <i>Blood</i> . 113:3821. (FA) 2. Yeung MY, <i>et al.</i> 2013. <i>J. Immunol.</i> 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