Product Data Sheet

PerCP/Cyanine5.5 anti-mouse Tim-4

Catalog # / $1250100 / 100 \mu g$

Size: 1250095 / 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

PerCP/Cyanine5.5 under optimal

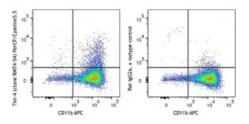
conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide

Workshop Number: V-CD28.05

Concentration: 0.2 mg/mL



Thioglycolate-elicited Balb/c mouse peritoneal macrophages were stained with CD11b APC and anti-mouse Tim-4 (clone RMT4-54) PerCP/Cyanine5.5 (left) or rat IgG2a, κ isotype control PerCP/Cyanine5.5 (right).

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 $\leq 0.25~\mu g$ per million cells in $100~\mu L$ volume. It is recommended that the reagent be titrated for optimal performance for each

application.

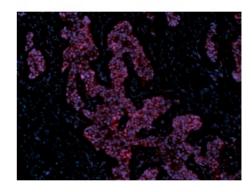
* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum

emission of 690 nm.

Application Notes:

Additional reported applications (for the relevant formats of this clone) include: *in vivo* induction of autoantibody production¹ and blockade of

dendritic cell Tim-4².



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 μ g/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

Application
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