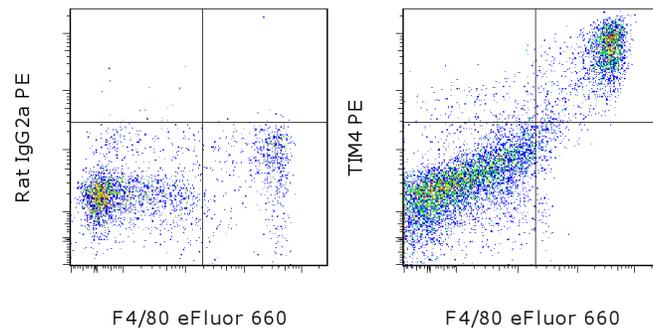


## Anti-Mouse TIM4 PE

**Catalog Number:** 12-5866

**Also known as:** TIMD4, SMUCKLER

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of Fc-blocked mouse resident peritoneal exudate cells with Anti-Mouse F4/80 Antigen eFluor® 660 (cat. 50-4801) and 0.125 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.125 ug of Anti-Mouse TIM-4 PE (right). Cells in the large scatter population were used for analysis.

### Product Information

**Contents:** Anti-Mouse TIM4 PE



**Catalog Number:** 12-5866

**Clone:** 54 (RMT4-54)

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium

azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Caution, contains Azide**



### Description

The monoclonal antibody 54 recognizes mouse Tim-4 (T cell, Ig, mucin). Unlike other Tim family members, Tim-4 is not expressed on T lymphocytes but rather found on antigen presenting cells such as lymphoid and myeloid DC's and macrophages. Tim-4 has been shown to interact with Tim-1 thereby suggesting a role of Tim-4 in the balance of Th1/Th2 regulation. Additionally Tim-4 has been shown to be a receptor for phosphatidylserine and may play a role in engulfment of apoptotic cells. Expression is found on a subset of CD11c+ splenic cells.

### Applications Reported

This 54 (RMT4-54) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 54 (RMT4-54) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Please consider the use of a viability dye like 7-AAD (cat 00-6993) when staining for Tim4.

### References

Mizui M, Shikina T, Arase H, Suzuki K, Yasui T, Rennert PD, Kumanogoh A, Kikutani H. Bimodal regulation of T cell-mediated immune responses by TIM-4. *Int Immunol.* 2008 May;20(5):695-708.

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Kobayashi N, Karisola P, Peña-Cruz V, Dorfman DM, Jinushi M, Umetsu SE, Butte MJ, Nagumo H, Chernova I, Zhu B, Sharpe AH, Ito S, Dranoff G, Kaplan GG, Casasnovas JM, Umetsu DT, Dekruyff RH, Freeman GJ. TIM-1 and TIM-

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## Anti-Mouse TIM4 PE

**Catalog Number:** 12-5866

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4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells. *Immunity*. 2007 Dec;27(6):927-40.

### Related Products

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

14-0161 Anti-Mouse CD16/CD32 Purified (93)

50-4801 Anti-Mouse F4/80 Antigen eFluor® 660 (Alexa Fluor® 647 Replacement) (BM8)

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