

## Product datasheet for **AM60019PU-S**

### Timd4 Rat Monoclonal Antibody [Clone ID: RMT4-54]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RMT4-54
Applications:	FC, IF, IHC
Recommended Dilution:	<b>Flow cytometry:</b> 1/25-1/200, use 10µl of this suggested working dilution to label 10e6 cells in 100µl. <b>Immunofluorescence.</b> <b>Immunohistochemistry on Paraffin sections.</b> <i>Positive control:</i> Mouse spleen. For functional assays Cat.-No. AM60019LE-N is recommended.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse TIMD4 (amino acids 1-288), coupled with the Fc portion of mouse IgG2a
Specificity:	Clone RMT4-54 specifically recognises mouse Tim-4. Studies have shown that clone RMT4-54 significantly inhibits the efficient phagocytosis of apoptotic cells by PRMs (peritoneal resident Mac1 <sup>+</sup> cells), but not PEMs (peritoneal exudate Mac1 <sup>+</sup> cells) [Nakayama, 2009].
Formulation:	PBS containing 0.09% Sodium azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	T cell immunoglobulin and mucin domain containing 4



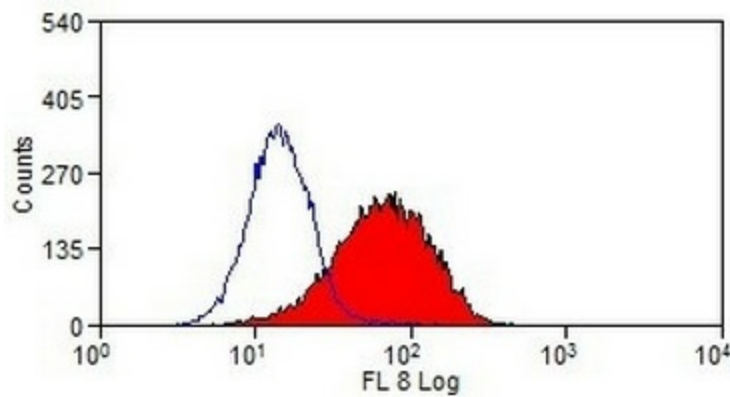
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Database Link: [Entrez Gene 276891 Mouse Q6U7R4](#)

**Background:** TIMD4 / TIM-4 (T-cell immunoglobulin mucin 4), a transmembrane glycoprotein and member of the immunoglobulin superfamily, exclusively expressed by antigen-presenting cells, which acts as the natural ligand of TIM-1, involved in T-cell expansion and cytokine production. TIMD4 is reported to be crucial for the phagocytosis of apoptotic cells by peritoneal macrophages, and studies have shown that interaction between TIM-1 on Th2 cells and TIM-4 on DCs, enhances Th2 cell function. The TIMD4 gene locus is associated with predisposition to asthma in both mice and humans and may be considered as a candidate disease gene for asthma.

**Synonyms:** TIMD-4, TIM4, TIM-4, T-cell membrane protein 4

### Product images:



Mouse TIM-4 transfected NRK cells stained with rat anti mouse TIMD4 / TIM-4 antibody.