

## Product datasheet for **AM26307PU-N**

### Timd4 Hamster Monoclonal Antibody [Clone ID: Kat5-18]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Kat5-18
Applications:	ELISA, FN, IF
Recommended Dilution:	Flow cytometry: The typical starting working dilution is 1:50. Functional assays: Blocks the engulfment of apoptotic cells by thymic macrophages. Immunoassays. Immunofluorescence. Does not work in Immunohistochemistry on frozen and paraffin sections or Western blot.
Reactivity:	Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Mouse peritoneal cells
Specificity:	The monoclonal antibody Kat5-18 recognizes T-cell immunoglobulin and mucin domain containing molecule (TIMD-4, also called TIM-4).
Formulation:	PBS State: Purified State: Liquid purified 0.2 µm filtered purified Ig fraction Stabilizer: 0.1% bovine serum albumin
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	T cell immunoglobulin and mucin domain containing 4
Database Link:	<a href="#">Entrez Gene 276891 Mouse</a> <a href="#">Q6U7R4</a>



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**Background:**

TIMD-4 is a type I transmembrane protein belonging to the immunoglobulin superfamily, containing one Ig-like V-type (immunoglobulin-like) domain. TIMD-4 is expressed in Mac1+ cells in spleen, lymph nodes and fetal liver. TIMD-4 binds apoptotic cells by recognizing phosphatidylserine via its immunoglobulin domain. TIMD-4 in fibroblasts enhanced their ability to engulf apoptotic cells. TIMD-4 is involved in regulating T-cell proliferation and lymphotoxin signaling. TIMD-4 and TIMD-1 are phosphatidylserine receptors for the engulfment of apoptotic cells, and are also involved in intracellular signaling in which exosomes are involved.

**Synonyms:**

TIMD-4, TIM4, TIM-4, T-cell membrane protein 4