

10-3535: Monoclonal Antibody to mouse TIM-4(Discontinued)

Clonality :	Monoclonal
Clone Name :	Kat5-18
Application :	Functional Assay,FACS,IF
Reactivity :	Mouse
Gene :	Timd4
Gene ID :	276891
Uniprot ID :	Q6U7R4
Alternative Name :	Tim4, Spleen, mucin-containing, knockout of lymphotoxin protein, T-cell immunoglobulin mucin receptor 4, T-cell membrane protein 4
Isotype :	Armenian hamster IgG
Immunogen Information :	Mouse peritoneal cells

Description

The monoclonal antibody Kat5-18 recognizes T-cell immunoglobulin and mucin domain containing molecule (TIMD-4, also called TIM-4). 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. The monoclonal antibody Kat5-18 blocks the engulfment of apoptotic cells by thymic macrophages.

Product Info

Amount :	4(Discontinued) / 500 µg
Content :	0.5 mg, 0.2 µm filtered antibody solution in PBS
Storage condition :	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Application Note

For flow cytometry, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For functional studies, in vitro dilutions have to be optimized in user's experimental setting.