Human T-cell immunoglobulin and mucin domain-containing protein 4 (TIMD4) ELISA Kit

Catalog No: #EK11362

Package Size: #EK11362-1 48T #EK11362-2 96T

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Description

Product Name	Human T-cell immunoglobulin and mucin domain-containing protein 4 (TIMD4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ27515; SMUCKLER; TIM4;
Accession No.	Q96H15
Uniprot	Q96H15
GeneID	91937;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TIMD4 in samples. An antibody specific for TIMD4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTIMD4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMD4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TIMD4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TIM4 has an N-terminal IgV domain, followed by a long mucin stalk and a C-terminal cytoplasmic tail. The IgV domain contains an N-linked glycosylation site and a potential integrin-binding RGD motif, and the mucin stalk contains 38 potential O-linked glycosylation sites and a second N-linked glycosylation site near the membrane. The cytoplasmic domain of TIM4 lacks a conserved tyrosine kinase phosphorylation site found in other TIM family members.

The antigen recognized by the antibody was identified by expression cloning as a type I transmembrane protein called Tim4. Tim4 was expressed in Mac1+ cells in various mouse tissues, including spleen, lymph nodes, and fetal liver. Tim4 bound apoptotic cells by recognizing phosphatidylserine via its immunoglobulin domain.

Note: This product is for in vitro research use only