

Human T cell immunoreceptor with Ig and ITIM domains (TIGIT) ELISA Kit

Catalog No: #EK11363

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Package Size: #EK11363-1 48T #EK11363-2 96T

Description

Product Name	Human T cell immunoreceptor with Ig and ITIM domains (TIGIT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp667A205; FLJ39873; VSIG9; VSTM3; WUCAM; V-set and immunoglobulin domain containing 9 V-set and transmembrane domain containing 3 Washington University cell adhesion molecule
Accession No.	Q495A1
Uniprot	Q495A1
GeneID	201633;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.133 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 TIGIT in samples. An antibody specific for TIGIT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTIGIT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIGIT 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 TIGIT bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:TIGIT encodes a member of the PVR (poliovirus receptor) family of immunoglobulin proteins. The product of this gene is expressed on several classes of T cells including follicular B helper T cells (TFH). The protein has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses. The predicted 244-amino acid TIGIT protein has a single Ig domain, followed by a type I transmembrane domain and a single intracellular immunoreceptor tyrosine-based inhibitory motif. It shares 88%, 67%, and 58% amino acid identity with its rhesus, dog, and mouse homologs, respectively.

Note: This product is for in vitro research use only