

Human MARVEL domain-containing protein 2 (MARVELD2) ELISA Kit

Catalog No: #EK9892

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Package Size: #EK9892-1 48T #EK9892-2 96T

Description

Product Name	Human MARVEL domain-containing protein 2 (MARVELD2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DFNB49; FLJ30532; MARVD2; MRVLDC2; Tric; MARVEL (membrane-associating) domain containing 2 tricellulin
Accession No.	Q8N4S9
Uniprot	Q8N4S9
GeneID	153562;
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:0.125 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 MARVELD2 in samples. An antibody specific for MARVELD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMARVELD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MARVELD2 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 MARVELD2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MARVELD2, or tricellulin (TRIC), is an integral membrane protein concentrated at the vertically oriented TJ strands of tricellular contacts.The 555-amino acid protein contains cytoplasmic N and C termini, 2 transmembrane domains, and 2 extracellular loops. Northern blot analysis detected high expression of Tric in epithelium-derived tissues, including small intestine, kidney, and lung. Western blot analysis of mouse epithelial cell lines revealed an approximately 66-kD protein, as well as larger phosphorylated intracellular forms. Immunofluorescence microscopy showed expression of Tric predominantly at tricellular contacts where occludin (OCLN)-positive bicellular TJs converged. Tric-positive structures appeared as short rods through confocal microscopy.

Note: This product is for in vitro research use only