Human Latent-transforming growth factor beta-binding protein 3 (LTBP3) ELISA Kit

Catalog No: #EK10015

Package Size: #EK10015-1 48T #EK10015-2 96T

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Description

Product Name	Human Latent-transforming growth factor beta-binding protein 3 (LTBP3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp586M2123; FLJ33431; FLJ39893; FLJ42533; FLJ44138; FLJ45576; LTBP-3; LTBP2; STHAG6; pp6425; latent TGF beta binding protein 3
Accession No.	Q9NS15
Uniprot	Q9NS15
GeneID	4054;
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:0.068 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 LTBP3 in samples. An antibody specific for LTBP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLTBP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LTBP3 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 LTBP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LTBP2 belongs to the family of latent transforming growth factor (TGF)-beta binding proteins (LTBP), which are extracellular matrix proteins with multi-domain structure. This protein is the largest member of the LTBP family possessing unique regions and with most similarity to the fibrillins. It has thus been suggested that it may have multiple functions: as a member of the TGF-beta latent complex, as a structural component of microfibrils, and a role in cell adhesion.LTBP2 has approximately 45% amino acid identity to LTBP1 and 25% identity to fibrillin-1 (FBN1) but unlike other LTBP family members does not bind to latent forms of TGFB. The C-terminal region of LTBP2 competes with LTBP1 for specific binding to the N-terminal region of FBN1, but not FBN2 , in microfibrils.

Note: This product is for in vitro research use only