

# Mouse Latent-transforming growth factor beta-binding protein 1 (LTBP1) ELISA Kit

Catalog No: #EK10018

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

Package Size: #EK10018-1 48T #EK10018-2 96T

## Description

Product Name	Mouse Latent-transforming growth factor beta-binding protein 1 (LTBP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC163161; TGF-beta1-BP-1 latent-transforming growth factor beta-binding protein 1 transforming growth factor beta-1-binding protein 1
Accession No.	Q8CG19
Uniprot	Q8CG19
GeneID	268977;
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:0.156-10 ng/mL

Sensitivity:0.053 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 LTBP1 in samples. An antibody specific for LTBP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLTBP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LTBP1 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 LTBP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Latent-transforming growth factor beta-binding protein 1 belongs to the family of latent TGF-beta binding proteins (LTBPs). The secretion and activation of TGF-betas is regulated by their association with latency-associated proteins and with latent TGF-beta binding proteins.

The product of this gene targets latent complexes of transforming growth factor beta to the extracellular matrix, where the latent cytokine is subsequently activated by several different mechanisms. Alternatively spliced transcript variants encoding different isoforms have been identified.

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Note: This product is for in vitro research use only