

# Human TM2 domain-containing protein 1 (TM2D1) ELISA Kit



Catalog No: #EK6491

Orders: order@signalwayantibody.com

Package Size: #EK6491-1 48T #EK6491-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human TM2 domain-containing protein 1 (TM2D1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BBP; beta-amyloid binding protein
Accession No.	Q9BX74
Uniprot	Q9BX74
GeneID	83941;
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:0.781-50 ng/mL

Sensitivity:0.29 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 TM2D1 in samples. An antibody specific for TM2D1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTM2D1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TM2D1 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 TM2D1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TM2D1 is a beta-amyloid peptide-binding protein. It contains a structural module related to that of the seven transmembrane domain G protein-coupled receptor superfamily and known to be important in heterotrimeric G protein activation. Beta-amyloid peptide has been established to be a causative factor in neuron death and the consequent diminution of cognitive abilities observed in Alzheimer's disease. This protein may be a target of neurotoxic beta-amyloid peptide, and may mediate cellular vulnerability to beta-amyloid peptide toxicity through a G protein-regulated program of cell death.BBP bound the 42-amino acid form of human beta-amyloid peptide in vitro with high affinity and specificity. Expression of a signaling-deficient dominant-negative BBP mutant suppressed sensitivity of human Ntera-2 neurons to beta-amyloid-mediated toxicity.

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Note: This product is for in vitro research use only