

## Mouse TM2 Domain-Containing Protein 1 (TM2D1) ELISA Kit | TM2D1 elisa kit

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CATALOG #  
**AAA332218**

REACTIVITY  
**Mouse**

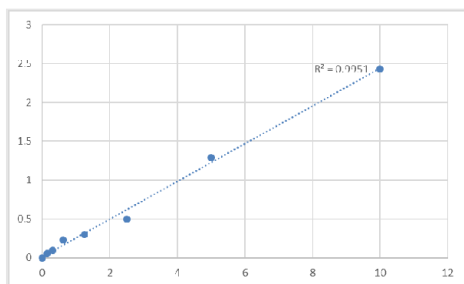
### PRODUCT SYNONYMS

TM2 Domain-Containing Protein 1 (TM2D1); Mouse TM2 Domain-Containing Protein 1 (TM2D1) ELISA Kit; TM2D1; BBP; beta-amyloid binding protein; TM2D1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Mouse TM2 domain-containing protein 1 (TM2D1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TM2D1. No significant cross-reactivity or interference between Mouse TM2D1 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length         | 208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Mouse TM2 domain-containing protein 1 (TM2D1) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TM2D1 elisa kit | <p>Description: This Mouse TM2 domain-containing protein 1 (TM2D1) ELISA Kit 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 any TM2D1 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.</p> <p>Background: 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                 |
|----------------------------------|---------------------------------|
| NCBI GI #                        | 32171188                        |
| NCBI GeneID                      | 94043                           |
| NCBI Accession #                 | NP_444387.1                     |
| NCBI GenBank Nucleotide #        | NP_444387.1                     |
| UniProt Accession #              | Q99MB3                          |
| NCBI Official Full Name          | TM2 domain-containing protein 1 |
| NCBI Official Synonym Full Names | TM2 domain containing 1         |
| NCBI Official Symbol             | Tm2d1                           |
| NCBI Official Synonym Symbols    | Bbp; AA990549; 2310026L18Rik    |
| NCBI Protein Information         | TM2 domain-containing protein 1 |
| UniProt Protein Name             | TM2 domain-containing protein 1 |
| UniProt Gene Name                | <b>Tm2d1</b>                    |
| UniProt Synonym Gene Names       | Bbp; mBBP                       |
| UniProt Entry Name               | TM2D1_MOUSE                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.