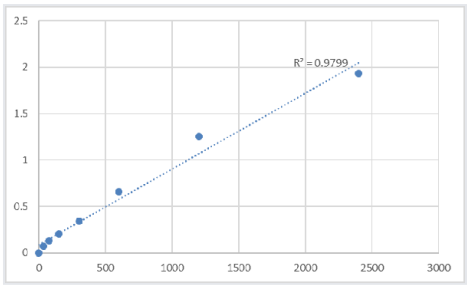
Protein Tob1 (TOB1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Protein Tob1 (TOB1), ELISA Kit
Full Product Name	Mouse Protein Tob1 (TOB1) ELISA Kit
Product Gene Name	TOB1 elisa kit
Product Synonym Names	TOB1; APRO6; MGC104792; MGC34446; PIG49; TOB; TROB; TROB1; transducer of erbB-2
Species Reactivity	Mouse
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Specificity	Mouse Protein Tob1 (TOB1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TOB1. No significant cross-reactivity or interference between Mouse TOB1 and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
3D Structure	ModBase 3D Structure for Q61471
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Related Product Information for TOB1 elisa kit	Description: This Mouse Protein Tob1 (TOB1) ELISA Kit employs a two-site sandwich ELISA to quantitate TOB1 in samples. An antibody specific for TOB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TOB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOB1 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 TOB1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TOB1 encodes a member of the tob/btg1 family of anti-proliferative proteins that have the potential to regulate cell growth. When exogenously expressed, this protein supresses cell growth in tissue culture. The protein undergoes phophorylation by a serine/threonine kinase, 90 kDa ribosomal S6 kinase. Interactions of this protein with the v-erb-b2 erythroblastic leukemia viral oncogene homolog 2 gene product p185 interferes with growth suppression. This protein inhibits T cell proliferation and transcription of cytokines and cyclins. The protein interacts with both mothers against decapentaplegic Drosophila homolog 2 and 4 to enhance their DNA binding activity. This interaction inhibits interleukin 2 transcription in T cells.
Other Notes	Small volumes of TOB1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TOB1 purchase	MBS9716694 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Protein Tob1 (TOB1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TOB1. The ELISA analytical biochemical technique of the MBS9716694 kit is based on TOB1 antibody-TOB1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TOB1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TOB1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of TOB1 elisa kit
Fig.1. Mouse Protein Tob1 (TOB1) Standard Curve.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TOB1. It may not necessarily be applicable to this product.

NCBI GI #	61676219
NCBI GeneID	22057
NCBI Accession #	NP_033453.2
UniProt Primary Accession #	Q61471
UniProt Related Accession #	Q61471
GenBank Nucleotide #	NP_033453.2
NCBI Official Full Name	protein Tob1
NCBI Official Synonym Full Names	transducer of ErbB-2.1
NCBI Official Symbol	Tob1
NCBI Official Synonym Symbols	Tob; Trob
UniProt Protein Name	Protein Tob1
UniProt Synonym Protein Names	Transducer of erbB-2 1
Protein Family	Protein
UniProt Gene Name	Tob1
UniProt Synonym Gene Names	Tob; Trob
UniProt Entry Name	TOB1_MOUSE
NCBI Protein Information	protein Tob1
Research Articles on TOB1	**1.** Our findings provide important insights into a previously unrecognized oncogenic role of Tob1 in colon cancer and suggest that Tob1 is an adverse prognostic factor and therapeutic target for colon cancer.
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