Zinc Finger and BTB Domain-Containing Protein 7a (ZBTB7A) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Zinc finger and BTB domain-containing protein 7A (ZBTB7A), ELISA Kit
Full Product Name	Mouse Zinc finger and BTB domain-containing protein 7A (ZBTB7A) ELISA Kit
Product Gene Name	ZBTB7A elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Serum, Plasma, Other biological fluids
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse ZBTB7A. No significant cross-reactivity or interference between Mouse ZBTB7A and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Molecular Weight	59,778 Da
3D Structure	ModBase 3D Structure for O88939
Sample Volume	1-200 uL
Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100 Intra-Assay: CV Inter-Assay: CV
Detection Wavelength	450 nm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ZBTB7A elisa kit	LRF interacted with BCL6 but not with PLZF. The interaction required both the BTB/POZ and zinc finger domains of the 2 proteins. Confocal microscopy demonstrated colocalization of LRF and BCL6 in the nucleus.BTB/POZ domains can form homomeric or heterodimeric complexes and are found in some viral and cellular proteins that may not be associated with transcription. The mouse and human LRF proteins share 88% amino acid identity. Northern blot analysis revealed wide expression of 3 transcripts in various cell lines as well as in skin, lung, and liver, but not in spleen or thymus. Whole mount in situ hybridization analysis showed expression of Lrf in the first 2 pharyngeal arches, limb buds, tail buds, and the neural tube of mouse embryos, suggesting a role in stimulating cell proliferation. Principle of the Assay: This assay employs a two-site sandwich ELISA to quantitate ZBTB7A in samples. An antibody specific for ZBTB7A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyZBTB7A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ZBTB7A 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 ZBTB7A bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of ZBTB7A 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 ZBTB7A purchase	MBS282240 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Zinc finger and BTB domain-containing protein 7A (ZBTB7A) 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 ZBTB7A. The ELISA analytical biochemical technique of the MBS282240 kit is based on ZBTB7A antibody-ZBTB7A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ZBTB7A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ZBTB7A. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZBTB7A. It may not necessarily be applicable to this product.

NCBI GI #	117647238
NCBI GeneID	16969
NCBI Accession #	NP_034861.3
UniProt Primary Accession #	O88939
UniProt Secondary Accession #	Q3U372; Q9CRJ0; B2RRP7; B7ZNL6
UniProt Related Accession #	O88939
GenBank Nucleotide #	NM_010731.3
NCBI Official Full Name	zinc finger and BTB domain-containing protein 7A
NCBI Official Synonym Full Names	zinc finger and BTB domain containing 7a
NCBI Official Symbol	Zbtb7a
NCBI Official Synonym Symbols	Lrf; FBI-1; Zbtb7; Pokemon; AI452336; 9030619K07Rik; 9130006G12Rik
UniProt Protein Name	Zinc finger and BTB domain-containing protein 7A
UniProt Synonym Protein Names	Leukemia/lymphoma-related factor; POZ and Krueppel erythroid myeloid ontogenic factor; POK erythroid myeloid ontogenic factor; Pokemon
Protein Family	Zinc finger and BTB domain-containing protein
UniProt Gene Name	Zbtb7a
UniProt Synonym Gene Names	Lrf; Zbtb7; POK erythroid myeloid ontogenic factor; Pokemon
NCBI Protein Information	zinc finger and BTB domain-containing protein 7A
UniProt Comments for ZBTB7A	FBI1: a widely expressed zinc finger protein. Apparently interacts with Bcl-6. Protein type: C2H2-type zinc finger protein; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 10|10 C1 Cellular Component: nucleus Molecular Function: DNA binding; DNA binding transcription factor activity; histone acetyltransferase binding; metal ion binding; nucleic acid binding; protein binding Biological Process: cartilage development; cell differentiation; multicellular organism development; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; regulation of osteoclast differentiation; regulation of transcription, DNA-templated; transcription, DNA-dependent
Research Articles on ZBTB7A	**1.** this study shows that Thpok and LRF are redundantly required to maintain the size and functions of the postthymic Treg pool

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