T-Box Protein 3 (TBX3) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	T-Box Protein 3 (TBX3), ELISA Kit
Full Product Name	Cat T-Box Protein 3 ELISA Kit
Product Gene Name	TBX3 elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	79,389 Da
OMIM	181450
3D Structure	ModBase 3D Structure for O15119
Related Product Information for TBX3 elisa kit	MBS058709 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the T-Box Protein 3 (TBX3) 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 TBX3. The ELISA analytical biochemical technique of the MBS058709 kit is based on TBX3 antibody-TBX3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TBX3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TBX3. 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(%).
Other Notes	Small volumes of TBX3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBX3. It may not necessarily be applicable to this product.

NCBI GI #	47419907
NCBI GeneID	6926
NCBI Accession #	NP_057653.3
UniProt Primary Accession #	O15119
UniProt Secondary Accession #	Q8TB20; Q9UKF8
UniProt Related Accession #	O15119
GenBank Nucleotide #	NM_016569.3
NCBI Official Full Name	T-box transcription factor TBX3 isoform 2
NCBI Official Synonym Full Names	T-box 3
NCBI Official Symbol	TBX3
NCBI Official Synonym Symbols	UMS; XHL; TBX3-ISO
UniProt Protein Name	T-box transcription factor TBX3
Protein Family	T-box transcription factor
UniProt Gene Name	TBX3

UniProt Synonym Gene Names	T-box protein 3
UniProt Entry Name	TBX3_HUMAN
NCBI Protein Information	T-box transcription factor TBX3; T-box protein 3; bladder cancer related protein XHL
NCBI Summary for TBX3	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This protein is a transcriptional repressor and is thought to play a role in the anterior/posterior axis of the tetrapod forelimb. Mutations in this gene cause ulnar-mammary syndrome, affecting limb, apocrine gland, tooth, hair, and genital development. Alternative splicing of this gene results in three transcript variants encoding different isoforms; however, the full length nature of one variant has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for TBX3	TBX3: Transcriptional repressor involved in developmental processes. Probably plays a role in limb pattern formation. Defects in TBX3 are the cause of ulnar-mammary syndrome (UMS). UMS is characterized by ulnar ray defects, obesity, hypogenitalism, delayed puberty, hypoplasia of nipples and apocrine glands. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 12q24.21 Cellular Component: nucleus Molecular Function: protein binding; sequence-specific DNA binding Biological Process: embryonic forelimb morphogenesis; positive regulation of transcription, DNA-dependent; limbic system development; negative regulation of epithelial cell differentiation; negative regulation of transcription from RNA polymerase II promoter; palate development; female genitalia development; forelimb morphogenesis; mammary gland development; determination of anterior/posterior axis, embryo; positive regulation of cell proliferation; male genitalia development; heart looping; skeletal development; luteinizing hormone secretion; blood vessel development; specification of organ position; transcription, DNA-dependent; in utero embryonic development; stem cell maintenance; cell aging; positive regulation of cell cycle; regulation of transcription from RNA polymerase II promoter; organ morphogenesis; mesoderm morphogenesis; embryonic digit morphogenesis; follicle-stimulating hormone secretion; negative regulation of transcription, DNA-dependent; negative regulation of myoblast differentiation; negative regulation of apoptosis Disease: Ulnar-mammary Syndrome
Research Articles on TBX3	**1.** TBX3 may play an important role as a reciprocal switch between substrate dependent cell proliferation and tumour invasion.
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