TIA1 Positive Control

PRODUCT OVERVIEW

Product Name	TIA1, Positive Control
Full Product Name	TIA1 Antibody Western Blot Positive Control
Product Gene Name	TIA1 positive control
Product Synonym Names	Cytotoxic granule associated RNA binding protein 1; Nucleolysin TIA 1 isoform p40; p40 TIA 1; p40-TIA-1 (containing p15-TIA-1); RNA binding protein TIA 1; T-cell-restricted intracellular antigen-1; TIA 1 cytotoxic granule associated RNA binding protein; TIA1 cytotoxic granule associated RNA binding protein like 1; TIA1 protein; TIAL1; TIAR antibody
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: TIA1 (MBS5400062) Positive Control: TIA1 (MBS543310)
Matching Pairs	Antibody: TIA1 (MBS5400063) Positive Control: TIA1 (MBS543310)
Molecular Weight	24,062 Da
OMIM	603518
3D Structure	ModBase 3D Structure for P31483
Immunogen	Purified Protein
Molecular Function	AU-rich element binding, nucleotide binding, poly(A) binding, poly (A) RNA binding
Subcellular Location	Cytoplasmic granule, nucleus. (Note: accumulates in Cytoplasmic stress granules following cellular damage
Applications Tested/Suitable for TIA1 positive control	Western Blot (WB)
Application Notes for TIA1 positive control	Western Blot: 1:500
Related Product Information for TIA1 positive control	Western Blot Positive Control Nucleolysin TIA-1 isoform p40 Antibody Involved in alternative pre-RNA splicing and regulation of mRNA translation by binding to AU-rich elements (AREs) located in mRNA 3' untranslated regions (3' UTRs). Possesses nucleolytic activity against cytotoxic lymphocyte target cells. May be involved in apoptosis.
Other Notes	Small volumes of TIA1 positive control 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 TIA1 purchase	MBS543310 is a positive control targeting TIA1. Also known as TIA1 Antibody Western Blot Positive Control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIA1. It may not necessarily be applicable to this product.

NCBI GI #	62088002
NCBI GeneID	7072
NCBI Accession #	BAD92448.1

UniProt Primary Accession #	P31483
UniProt Secondary Accession #	Q53SS9; Q96B58
UniProt Related Accession #	P31483
NCBI Official Full Name	TIA1 protein variant, partial
NCBI Official Synonym Full Names	TIA1 cytotoxic granule-associated RNA binding protein
NCBI Official Symbol	TIA1
NCBI Official Synonym Symbols	WDM; TIA-1
UniProt Protein Name	Nucleolysin TIA-1 isoform p40
UniProt Synonym Protein Names	RNA-binding protein TIA-1; T-cell-restricted intracellular antigen-1; TIA-1; p40-TIA-1
Protein Family	Nucleolysin
UniProt Gene Name	TIA1
UniProt Synonym Gene Names	TIA-1
UniProt Entry Name	TIA1_HUMAN
NCBI Protein Information	nucleolysin TIA-1 isoform p40
NCBI Summary for TIA1	The product encoded by this gene is a member of a RNA-binding protein family and possesses nucleolytic activity against cytotoxic lymphocyte (CTL) target cells. It has been suggested that this protein may be involved in the induction of apoptosis as it preferentially recognizes poly(A) homopolymers and induces DNA fragmentation in CTL targets. The major granule-associated species is a 15-kDa protein that is thought to be derived from the carboxyl terminus of the 40-kDa product by proteolytic processing. Alternative splicing resulting in different isoforms of this gene product has been described in the literature. [provided by RefSeq, Jul 2008]
UniProt Comments for TIA1	TIA1: Involved in alternative pre-RNA splicing and regulation of mRNA translation by binding to AU-rich elements (AREs) located in mRNA 3' untranslated regions (3' UTRs). Possesses nucleolytic activity against cytotoxic lymphocyte target cells. May be involved in apoptosis. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Translation; RNA-binding Chromosomal Location of Human Ortholog: 2p13 Cellular Component: cytoplasm; nucleoplasm; stress granule Molecular Function: AU-rich element binding; nucleotide binding; poly(A) binding; protein binding Biological Process: apoptosis; fibroblast growth factor receptor signaling pathway; negative regulation of cytokine biosynthetic process; negative regulation of translation; regulation of nuclear mRNA splicing, via spliceosome Disease: Welander Distal Myopathy
Research Articles on TIA1	**1.** TIA proteins play a role in the regulation and/or modulation of cellular homeostasis related to focal/cell adhesion, extracellular matrix and membrane and cytoskeleton dynamics.
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