TIA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIA1, Polyclonal Antibody
Full Product Name	TIA1 Antibody
Product Gene Name	anti-TIA1 antibody
Product Synonym Names	WDM; TIA-1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total TIA1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	41,801 Da
OMIM	gene 604454
3D Structure	ModBase 3D Structure for P31483
Immunogen	Full length fusion protein
Product Categories/Family for anti-TIA1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TIA1 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TIA1 antibody	WB: 1:500-2000 IHC: 1:100-250
Related Product Information for anti-TIA1 antibody	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
Other Notes	Small volumes of anti-TIA1 antibody 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	MBS8594127 is an antibody targeting TIA1. Also known as TIA1 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	206729905
NCBI GeneID	7072
NCBI Accession #	P31483.3
UniProt Primary Accession #	P31483
UniProt Secondary Accession #	Q53SS9
UniProt Related Accession #	P31483
NCBI Official Full Name	Nucleolysin TIA-1 isoform p40
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; p40-TIA-1 (containing p15-TIA-1); T-cell-restricted intracellular antigen-1
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: nucleoplasm; stress granule; cytoplasm Molecular Function: protein binding; nucleotide binding; AU-rich element binding; poly(A) binding Biological Process: regulation of nuclear mRNA splicing, via spliceosome; apoptosis; negative regulation of translation; negative regulation of cytokine biosynthetic process Disease: Welander Distal Myopathy
Research Articles on TIA1	**1.** TIA1-knockdown HeLa cells show an increase in ribosomes and translational machinery components.
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