

TIAL1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS15785**Specification**

TIAL1 Antibody (Internal) - Product Information

Application	IHC, WB
Primary Accession	Q01085
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	42kDa KDa

TIAL1 Antibody (Internal) - Additional Information**Gene ID** 7073**Other Names**

Nucleolysin TIAR, TIA-1-related protein, TIAL1

Target/Specificity

Human TIAL1. This antibody is expected to recognize both isoforms (NP_003243.1; NP_001029097.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

TIAL1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

TIAL1 Antibody (Internal) - Protein Information**Name** TIAL1**Function**

RNA-binding protein involved in alternative pre-RNA splicing and in cytoplasmic stress granules formation (PubMed: [1326761](http://www.uniprot.org/citations/1326761), PubMed: [8576255](http://www.uniprot.org/citations/8576255), PubMed: [17488725](http://www.uniprot.org/citations/17488725), PubMed: [10613902](http://www.uniprot.org/citations/10613902)). Shows a preference for uridine-rich RNAs (PubMed: [8576255](http://www.uniprot.org/citations/8576255)). Activates splicing of alternative exons with weak 5' splice sites followed by a U-rich stretch on its own pre-mRNA and on TIA1 mRNA (By similarity). Promotes the inclusion of TIA1 exon 5 to give rise to the long isoform (isoform a) of TIA1 (PubMed: [17488725](http://www.uniprot.org/citations/17488725)).

target="_blank">17488725). Acts downstream of the stress-induced phosphorylation of EIF2S1/EIF2A to promote the recruitment of untranslated mRNAs to cytoplasmic stress granules (SG) (PubMed:10613902). Possesses nucleolytic activity against cytotoxic lymphocyte target cells (PubMed:1326761). May be involved in apoptosis (PubMed:1326761).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P70318}. Cytolytic granule. Cytoplasm, Stress granule Note=Nuclear import seems to be coupled to RNA polymerase II transcription and may be dependent on RNA-binding (By similarity) Accumulates in cytoplasmic stress granules (SG) following cellular damage (PubMed:10613902). {ECO:0000250|UniProtKB:P70318, ECO:0000269|PubMed:10613902}

Tissue Location

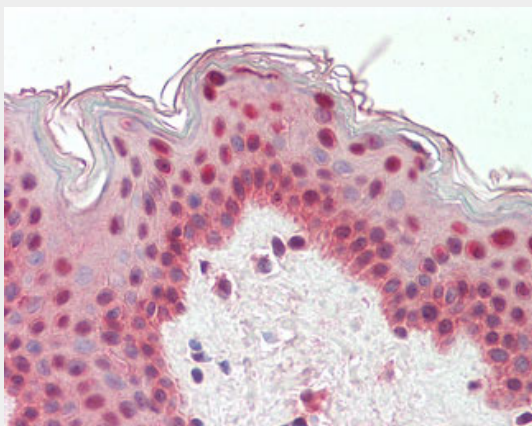
Expressed in brain, heart, kidney, lung and skeletal muscle.

TIAL1 Antibody (Internal) - Protocols

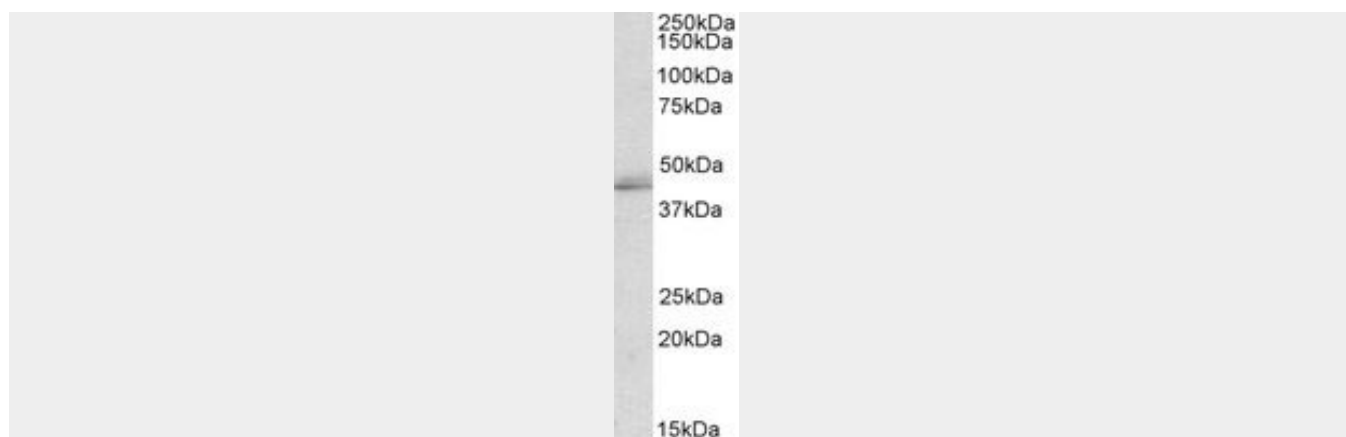
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TIAL1 Antibody (Internal) - Images



Anti-TIAL1 / TIAR antibody IHC staining of human skin.



TIAL1 antibody (2 ug/ml) staining of K562 lysate (35 ug protein/ml in RIPA buffer).

TIAL1 Antibody (Internal) - Background

RNA-binding protein. Possesses nucleolytic activity against cytotoxic lymphocyte target cells. May be involved in apoptosis.

TIAL1 Antibody (Internal) - References

Kawakami A., et al. Proc. Natl. Acad. Sci. U.S.A. 89:8681-8685(1992).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Daub H., et al. Mol. Cell 31:438-448(2008).
Choudhary C., et al. Science 325:834-840(2009).
Reinhardt H.C., et al. Mol. Cell 40:34-49(2010).