

DATASHEET

TIAR Rabbit Polyclonal Antibody

CAT. NO. APA17107

KEY FEATURES

| | | | |
|---------------|---|---------------|---------------------|
| Target | TIAR | Source / Host | Rabbit |
| Reactivity | Human, Mouse | Clonality | Polyclonal |
| Applications | WB, IHC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | | Storage at -20°C |

BACKGROUND

RNA-binding protein involved in alternative pre-RNA splicing and in cytoplasmic stress granules formation . Shows a preference for uridine-rich RNAs . 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 . Promotes the inclusion of TIA1 exon 5 to give rise to the long isoform (isoform a) of TIA1 . Acts downstream of the stress-induced phosphorylation of EIF2S1/EIF2A to promote the recruitment of untranslated mRNAs to cytoplasmic stress granules (SG) . Possesses nucleolytic activity against cytotoxic lymphocyte target cells . May be involved in apoptosis .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|-----|----------------|
| WB | 1:500 - 1:2000 |
| IHC | 1:50 - 1:200 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

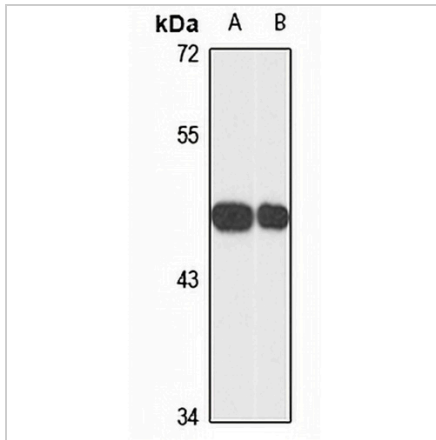
| | |
|-------------------|---|
| Description | Rabbit polyclonal antibody to TIAR |
| Specificity | Recognizes endogenous levels of TIAR protein |
| Antibody Type | Primary antibody |
| Immunogen | Recombinant fusion protein of human TIAR. The exact sequence is proprietary. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 41; Observed: 47 kD |
| Form/Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | Nucleolysin TIAR; TIA-1-related protein |
| Gene Symbol | TIAL1 |
| Entrez Gene | 7073(Human); 21843(Mouse) |
| SwissProt | Q01085(Human); P70318(Mouse) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

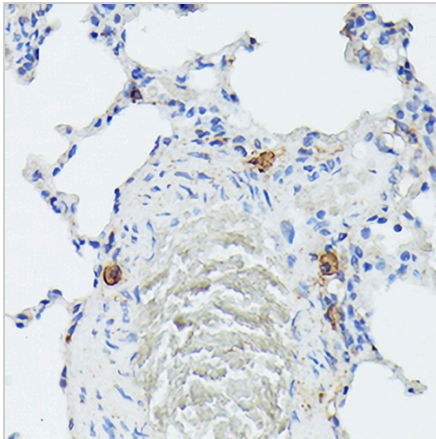
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of TIAR expression in HeLa (A), K562 (B) whole cell lysates. (Predicted band size: 41; 43 kD; Observed band size: 47 kD)



Immunohistochemical analysis of TIAR staining in rat lung formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.