

#5137 Store at -20C

TIAR Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42	Source: Rabbit	UniProt ID: #Q01085	Entrez-Gene Id: 7073
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Product Usage
Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TIAR Antibody detects endogenous levels of total TIAR protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TIAR. Antibodies are purified by protein A and peptide affinity chromatography.

Background

TIAR is a member of the RNA-recognition motif (RRM) family of RNA-binding proteins (1,2). It functions as a translational repressor under conditions of cellular damage (3,4). In response to cellular stress, TIAR associates with eIF1, eIF3, and the 40S ribosomal subunit and forms noncanonical preinitiation complexes that are translationally inactive (3,4). TIAR then aggregates with its family member TIA1 and facilitates the accumulation of the translationally inactive preinitiation complexes into discrete cytoplasmic foci called stress granules. The two major isoforms of TIAR are the products of alternative mRNA splicing (5,6).

Background References

1. Tian, Q. et al. (1991) *Cell* 67, 629-39.
2. Kawakami, A. et al. (1992) *Proc Natl Acad Sci USA* 89, 8681-5.
3. Anderson, P. and Kedersha, N. (2002) *Cell Stress Chaperones* 7, 213-21.
4. Anderson, P. and Kedersha, N. (2002) *J Cell Sci* 115, 3227-34.
5. Kawakami, A. et al. (1994) *J Immunol* 152, 4937-45.
6. Beck, A.R. et al. (1996) *Nucleic Acids Res* 24, 3829-35.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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