

TIAR Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	42	Rabbit	#Q01085	7073
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
	Immunoprecipitation					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 surrounding Pro337 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	<ol style="list-style-type: none"> 1. Tian, Q. et al. (1991) <i>Cell</i> 67, 629-39. 2. Kawakami, A. et al. (1992) <i>Proc Natl Acad Sci USA</i> 89, 8681-5. 3. Anderson, P. and Kedersha, N. (2002) <i>Cell Stress Chaperones</i> 7, 213-21. 4. Anderson, P. and Kedersha, N. (2002) <i>J Cell Sci</i> 115, 3227-34. 5. Kawakami, A. et al. (1994) <i>J Immunol</i> 152, 4937-45. 6. Beck, A.R. et al. (1996) <i>Nucleic Acids Res</i> 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	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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