

#8509 Store at -20C

TIAR (D32D3) XP® Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC, FC-FP, eCLIP	H M R Mk	Endogenous	42	Rabbit IgG	#Q01085	7073

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)
eCLIP

Dilution

1:1000
1:100
1:800 - 1:3200
1:400 - 1:1600
1:200

For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TIAR (D32D3) XP® Rabbit mAb recognizes endogenous levels of total TIAR protein. This antibody also weakly recognizes recombinant TIA1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TIAR protein.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)
FC-FP: Flow Cytometry (Fixed/Permeabilized) **eCLIP:** eCLIP

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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