

Product Datasheet

TIAL1 Antibody - BSA Free

NBP1-79932

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-79932

TIAL1 Antibody - BSA Free

Product Information

| | |
|--------------------------------|--|
| Unit Size | 100 ul |
| Concentration | 1 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.09% Sodium Azide |
| Isotype | IgG |
| Purity | Protein A purified |
| Buffer | PBS, 2% Sucrose |
| Target Molecular Weight | 42 kDa |

Product Description

| | |
|-------------------------|---|
| Description | The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution. |
| Host | Rabbit |
| Gene ID | 7073 |
| Gene Symbol | TIAL1 |
| Species | Human, Zebrafish |
| Reactivity Notes | Zebrafish reactivity reported in scientific literature (PMIDs: 27489304 and 29975683). |
| Immunogen | Synthetic peptide directed towards the C terminal of human TIAL1The immunogen for this antibody is TIAL1. Peptide sequence WNQQGFGVDQSPSAAWMGGFGAQPPQGQAPPPVIPPPNQAGYGMASYQTQ . The peptide sequence for this immunogen was taken from within the described region. |

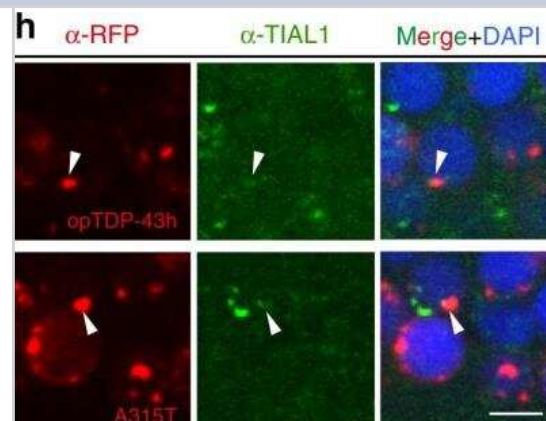
Product Application Details

| | |
|------------------------------|--|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, In-situ Hybridization |
| Recommended Dilutions | Western Blot 1.0 ug/ml, Immunocytochemistry/ Immunofluorescence, In-situ Hybridization |
| Application Notes | Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 29975683). Use in In-situ Hybridization reported in scientific literature (PMID: 27489304). |

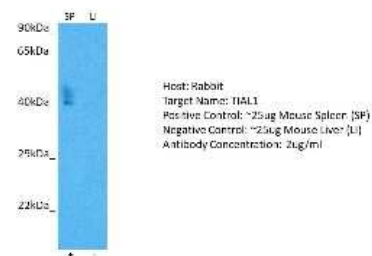


Images

Immunocytochemistry/Immunofluorescence: TIAL1 Antibody [NBP1-79932] - Immunofluorescence analyses of TIAL1 (h) against cytoplasmic opTDP-43h and opTDP-43hA315T aggregates at 120hpf. At least, twenty cells with distinct opTDP-43h or opTDP-43hA315T aggregates were examined for each of three independent fish. * $p < 0.0001$, ** $p < 0.0001$, *** $p = 0.03$ (unpaired t-test, two-tailed). The bars indicate 5 μ m. Image collected and cropped by CiteAb from the following publication ([nature.com/articles/s41467-020-14815-x](https://www.nature.com/articles/s41467-020-14815-x)), licensed under a CC-BY license.



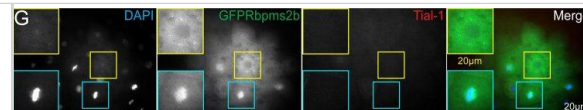
Western Blot: TIAL1 Antibody [NBP1-79932] - Host: Rabbit. Target: TIAL1. Positive control (+): Mouse Spleen (M-SP). Negative control (-): Mouse Liver (M-LI). Antibody concentration: 2 μ g/ml



Western Blot: TIAL1 Antibody [NBP1-79932] - Titration: 1.25 μ g/ml
Positive Control: Jurkat cell lysate.



Immunocytochemistry/ Immunofluorescence: TIAL1 Antibody [NBP1-79932] - rbpms2 mutant allele stability & localization activity in somatic cells. (A) RT-PCR to detect rbpms2a & rbpms2b maternal transcripts. Pink asterisks indicate likely nonsense mediated decay of mutant allele transcripts. (B-F) Wild-type GFP-Rbpms2a/b (B, D) & GFP-Rbpms2bsa9329 (F) localize to granules in HEK 293 cells, while GFP-Rbpms2aae30 & GFP-Rbpms2bae32 are not localized. (G-K) Zebrafish blastula cells expressing GFP-Rbpms2 fusions. (G,H) Wild-type GFP-Rbpms2b localizes near the nucleus (H), is apparently associated with the centrosome/spindle in some cells, & (G) is in granules that are not positive for the stress granule marker Tial-1. (H) A subset of GFP-Rbpms2b positive granules are positive for the p-body marker Dcp2 (open arrowheads). (I) GFP-Rbpms2bsa9329 localization to the centrosome/spindle but not granules. (J) GFP-Rbpms2bae32 & (K) GFP-Rbpms2aae30 localization. Insets show magnified views of the highlighted cells. Images are representative slices from Z-stacks of sphere stage embryos viewed from the animal pole. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29975683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Mannucci I, Dang NDP, Huber H et al. Genotype-phenotype correlations and novel molecular insights into the DHX30-associated neurodevelopmental disorders *Genome medicine* 2021-05-21 [PMID: 34020708] (ICC/IF, Zebrafish)

Asakawa K, Handa H, Kawakami K. Optogenetic modulation of TDP-43 oligomerization accelerates ALS-related pathologies in the spinal motor neurons *Nat Commun* 2020-02-21 [PMID: 32081878] (ICC/IF, Zebrafish)

kaufman OH, Lee k, Martin M et al. rbpms2 functions in Balbiani body architecture and ovary fate. *PLoS Genet.* 2018-07-01 [PMID: 29975683] (ICC/IF, Zebrafish)

Zampedri C, Tinoco-Cuellar M, Carrillo-Rosas S et al. Zebrafish P54 RNA helicases are cytoplasmic granules residents that are required for development and stress resilience. *Biol Open.* 2016-08-03 [PMID: 27489304] (ISH, Zebrafish)



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Products Related to NBP1-79932

| | |
|------------------|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NBP2-51914-0.1mg | Recombinant Human TIAL1 His Protein |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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