

Product Datasheet

DCP2 Antibody - BSA Free NBP2-16109

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-16109

DCP2 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris (pH 7), 0.1M Glycine, 20% Glycerol
Target Molecular Weight	48 kDa

Product Description

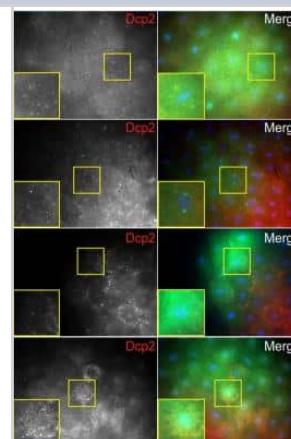
Host	Rabbit
Gene ID	167227
Gene Symbol	DCP2
Species	Human, Mouse, Drosophila, Zebrafish
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: <i>Xenopus laevis</i> (86%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human DCP2. The exact sequence is proprietary.

Product Application Details

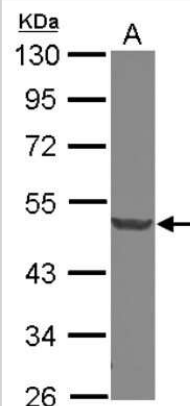
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, In-situ Hybridization
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID: 29975683), Immunohistochemistry-Paraffin 1:100-1:1000, In-situ Hybridization Reported in scientific literature (PMID: 27489304)

Images

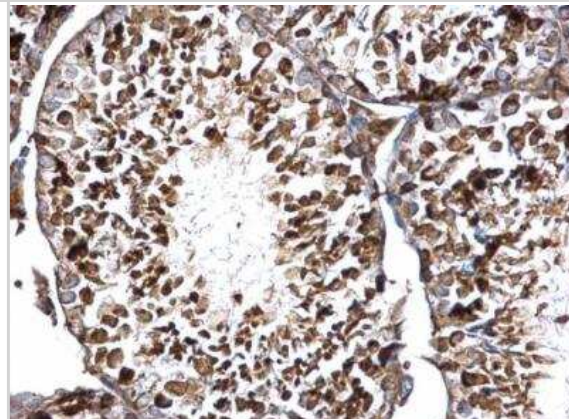
Immunocytochemistry/Immunofluorescence: DCP2 Antibody [NBP2-16109] - Zebrafish blastula cells expressing GFP-Rbpms2 fusions. Wild-type GFP-Rbpms2b localizes near the nucleus (top row), is apparently associated with the centrosome/spindle in some cells. (Top row) A subset of GFP-Rbpms2b positive granules are positive for the p-body marker Dcp2. (Second row) GFP-Rbpms2bsa9329 localization to the centrosome/spindle but not granules. (Third row) GFP-Rbpms2bae32 and (Final row) 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 and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.pgen.1007489](https://doi.org/10.1371/journal.pgen.1007489)) licensed under a CC-BY license.



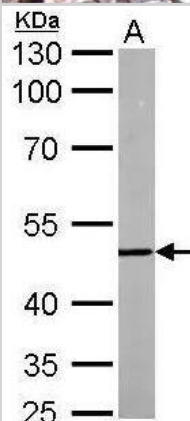
Western Blot: DCP2 Antibody [NBP2-16109] - Sample (30 ug of whole cell lysate) A: IMR32 10% SDS PAGE gel, diluted at 1:1000.



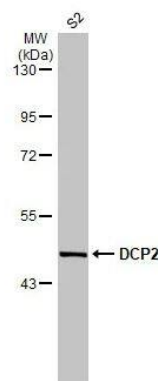
Immunohistochemistry-Paraffin: DCP2 Antibody [NBP2-16109] - Mouse testis. DCP2 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



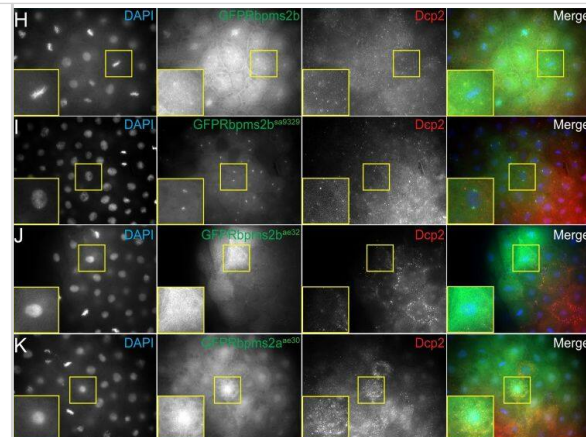
Western Blot: DCP2 Antibody [NBP2-16109] -A. 30 µg 24hr whole zebrafish lysate/extract 10 % SDS-PAGE DCP2 antibody dilution: 1:500



Western Blot: DCP2 Antibody [NBP2-16109] -Whole cell extract (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DCP2 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



Immunocytochemistry/ Immunofluorescence: DCP2 Antibody [NBP2-16109] - 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

Laura Lorenzo-Orts, Marcus Strobl, Benjamin Steinmetz, Friederike Leesch, Carina Pribitzer, Josef Roehsner, Michael Schutzbier, Gerhard Dürnberger, Andrea Pauli eIF4E1b is a non-canonical eIF4E protecting maternal dormant mRNAs. EMBO reports 2024-01-24 [PMID: 38177902]

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 NBP2-16109

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00167227-P01-10ug	Recombinant Human DCP2 GST (N-Term) Protein

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