

Product Datasheet

PABPC4 Antibody NB100-74594

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-74594**PABPC4 Antibody**

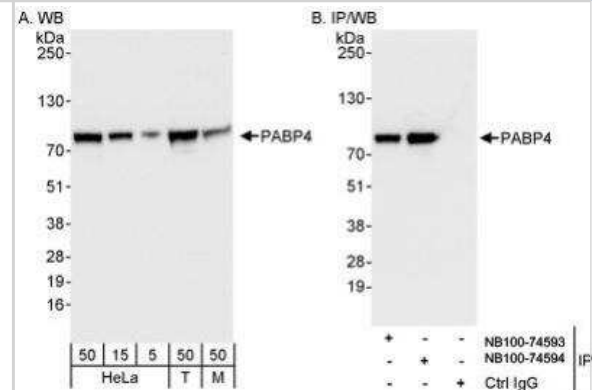
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

Product Description	
Description	Novus Biologicals Rabbit PABPC4 Antibody (NB100-74594) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-PABPC4 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8761
Gene Symbol	PABPC4
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 594 and 644 of human Poly(A)-binding protein 4 using the numbering given in entry NP_003810.1 (GeneID 8761).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:100-1:500, Immunoprecipitation 2-5ug/mg lysate, Immunohistochemistry-Paraffin 1:100-1:500
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

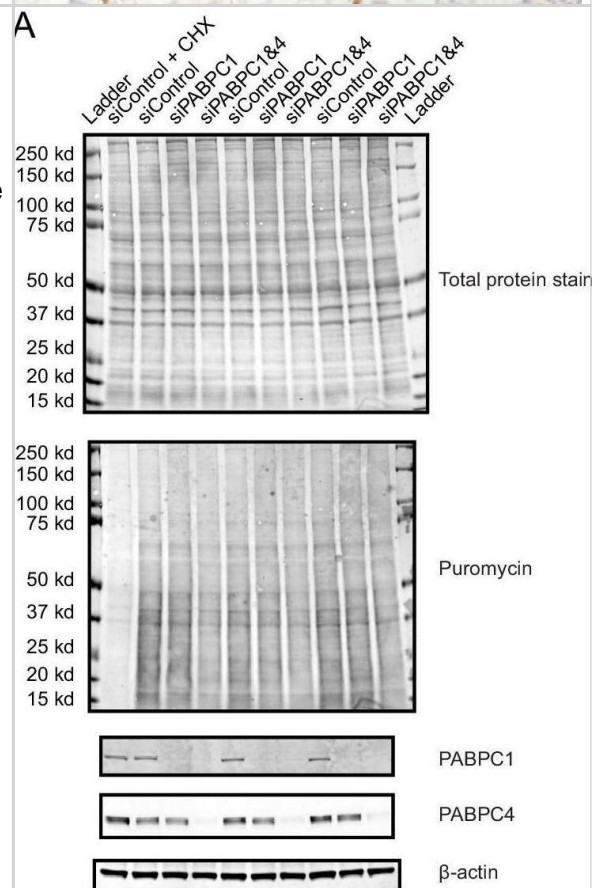
Western Blot: PABPC4 Antibody [NB100-74594] - Detection of Human and Mouse PABP4 on HeLa whole cell lysate using NB100-74594. PABP4 was also immunoprecipitated by rabbit anti-PABP4 antibody NB100-74593.



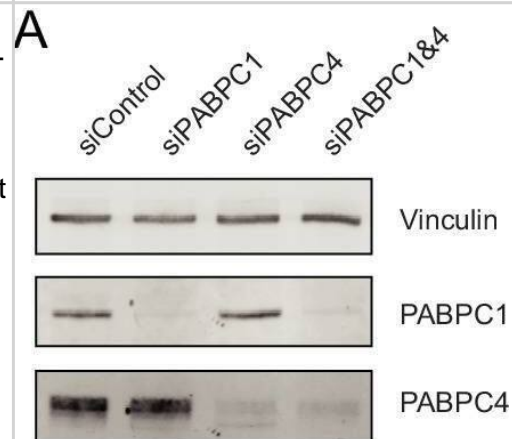
Immunohistochemistry-Paraffin: PABPC4 Antibody [NB100-74594] -
 Sample: FFPE section of human colon carcinoma. Antibody: Affinity
 purified rabbit anti- PABP4 used at a dilution of 1:200 (1ug/ml).
 Detection: DAB



Depletion of PABPC in mammalian cell lines has minimal effect on TE.
 (A) The effect of PABPC knockdown on protein synthesis in HeLa cells.
 Cells transfected with the indicated siRNAs were cultured for 48 hr, then
 treated with puromycin before harvesting for western-blot analysis. In a
 control sample, cycloheximide (CHX) was added prior to puromycin
 treatment. At the top is the membrane showing total protein levels. In the
 middle is the same membrane probed for puromycin to detect nascent
 protein synthesis. At the bottom are the results of the same membrane
 probed for the indicated proteins. (B) The effect of PABPC knockdown
 on polysomes in HeLa cells. At the top are polysome-gradient profiles
 from HeLa cells transfected with either control siRNAs or siRNAs
 targeting PABPC1 and PABPC4. At the bottom are northern blots
 analyzing RNA collected from gradient fractions shown at the top,
 probing for four cytoplasmic mRNAs and one mitochondrial mRNA (MT-
 CYB). (C) The early effects of rapid PABPC1 degradation on mRNA
 abundance (left), ribosome-footprint abundance (middle) and TE (right)
 in HCT116 PABPC1-AID cells. At the top, values from cells treated with
 IAA for 0.5 hr are compared to those from cells not treated with IAA.
 In the middle, values from cells treated with IAA for 1 hr are compared
 to those from cells not treated with IAA. At the bottom, values from
 cells treated with IAA for 3 hr are compared to those from cells not
 treated with IAA. For each gene, values for mRNA and ribosome-footprint
 reads per kilobase are plotted after normalizing to values for
 mitochondrial mRNAs. These results are summarized Figure 6F. Image
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PABPC depletion is not sufficient to establish strong coupling between
 poly(A)-tail length and TE in HeLa cells. (A) Western blot showing siRNA-
 mediated depletion of PABPC1 and PABPC4 in HeLa cells. (B) The
 effect of depleting PABPC on coupling between tail length and TE in
 HeLa cells. Shown is the relationship between TE and median poly(A)-
 tail length after transfecting HeLa cells with the indicated siRNAs. A
 point representing the mRNA from one gene (SPECC1) fell outside the plot
 area in the PABPC1 and PABPC4 double-knockdown sample.
 Otherwise, this panel is as in Figure 2A. Tail-length measurements were
 obtained using TAIL-seq. Image collected and cropped by CiteAb from
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Publications

Xiang K, Bartel Dp The molecular basis of coupling between poly(A)-tail length and translational efficiency eLife 2021-07-02 [PMID: 34213414]

Datu AK, Bag J. Enhanced Translation of mRNAs Encoding Proteins Involved in mRNA Translation during Recovery from Heat Shock. PLoS One 2013-05-16 [PMID: 23696868] (WB, Human)

Bhattacharjee RB, Bag J. Depletion of Nuclear Poly(A) Binding Protein PABPN1 Produces a Compensatory Response by Cytoplasmic PABP4 and PABP5 in Cultured Human Cells. PLoS One. 2012-12-31 [PMID: 23300856] (IP, Human)





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Products Related to NB100-74594

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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