

# Product Datasheet

## PUM1 Antibody - BSA Free

### NB100-259

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB100-259**

PUM1 Antibody - BSA Free

Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
<b>Target Molecular Weight</b>	126 kDa

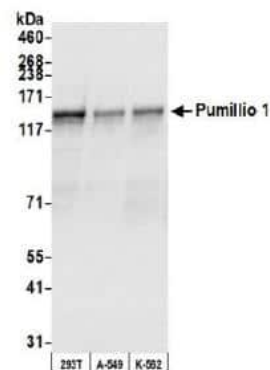
Product Description	
<b>Host</b>	Goat
<b>Gene ID</b>	9698
<b>Gene Symbol</b>	PUM1
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residues 225 and 275 of human Pumilio 1 using the numbering given in entry NP_055491.1 (GeneID 9698).

Product Application Details	
<b>Applications</b>	Western Blot, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000 - 1:10000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2-10 ug/mg lysate, Gel Super Shift Assays 1:1-1:100
<b>Application Notes</b>	Gel Super Shift Assays and Immunoprecipitation were reported in scientific literature (PMID: 23071749). Use in ICC/IF was reported in scientific literature (PMID: 23071749).

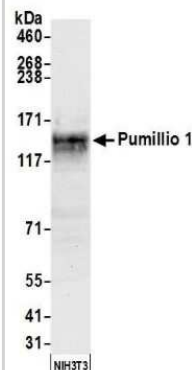


## Images

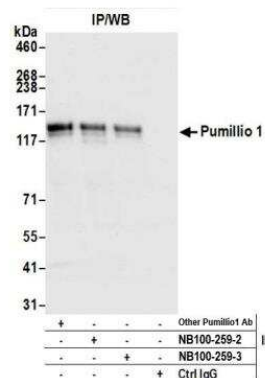
Western Blot: PUM1 Antibody [NB100-259] - Whole cell lysate (50 ug) from HEK293T, A-549, and K-562 cells prepared using NETN lysis buffer. Antibody: Affinity purified goat anti-Pumillio 1 antibody used for WB at 0.1 ug/ml. Secondary: HRPconjugated rabbit anti-goat IgG. Chemiluminescence with an exposure time of 10 seconds.



Western Blot: PUM1 Antibody [NB100-259] - Detection of mouse Pumillio 1 by western blot. Samples: Whole cell lysate (50 ug) from NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified goat anti-Pumillio 1 antibody NB100-259 used for WB at 0.1 ug/ml. Secondary: HRP-conjugated rabbit anti-goat IgG. Chemiluminescence with an exposure time of 10 seconds.



Immunoprecipitation: PUM1 Antibody [NB100-259] - Detection of human Pumillio 1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified goat anti-Pumillio 1 antibody NB100-259 (lot NB100-259-3) used for IP at 6 ug per reaction. Pumillio 1 was also immunoprecipitated by a previous lot of this antibody (lot NB100-259-2) and another rabbit anti-Pumillio 1 antibody. For blotting immunoprecipitated Pumillio 1, NB100-259 was used at 0.1 ug/ml. Chemiluminescence with an exposure time of 3 seconds.



## Publications

Takei N, Takada Y, Kawamura S et al. Changes in subcellular structures and states of pumilio 1 regulate the translation of target Mad2 and cyclin B1 mRNAs *Journal of Cell Science* 2020-05-19 [PMID: 33148609]

Uyhazi KE, Yang Y, Liu N et al. Pumilio Proteins Exert Distinct Biological Functions and Multiple Modes of PostTranscriptional Regulation in Embryonic Stem Cell Pluripotency and Early Embryogenesis *bioRxiv* 2019-08-30

Ma L, Dong F, Zaid M et al. ABCA1 protein enhances Toll-like receptor 4 (TLR4)-stimulated interleukin-10 (IL-10) secretion through protein kinase A (PKA) activation. *J Biol Chem* 2012-11-23 [PMID: 23055522]

Vessey JP, Schoderboeck L, Gingl E et al. Mammalian Pumilio 2 regulates dendrite morphogenesis and synaptic function. *Proc Natl Acad Sci U S A* 2010-02-01 [PMID: 20133610]

Morris AR, Mukherjee N, Keene JD et al. Ribonomic analysis of human Pum1 reveals cis-trans conservation across species despite evolution of diverse mRNA target sets. *Mol Cell Biol* 2008-06-01 [PMID: 18411299]

Chiu YL, Witkowska HE, Hall SC et al. High-molecular-mass APOBEC3G complexes restrict Alu retrotransposition. *Proc Natl Acad Sci U S A* 2006-10-01 [PMID: 17030807]

Zhu X, Wang Y, Pi W et al. NF-Y recruits both transcription activator and repressor to modulate tissue- and developmental stage-specific expression of human gamma-globin gene. *PLoS One*. 2012-10-10 [PMID: 23071749] (GS, IP, Human)





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### **Products Related to NB100-259**

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NB800-PC1	HeLa Whole Cell Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **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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