

Product Datasheet

rRNA Antibody NB100-662SS

Unit Size: 0.025 ml

Store at 4C. Do not freeze.

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Publications: 14

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Updated 6/15/2014 v.20.1

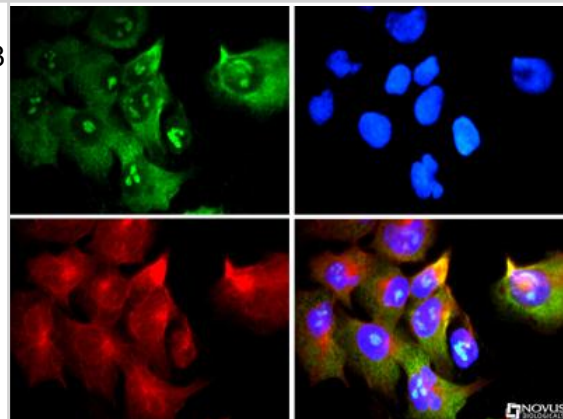
NB100-662SS

rRNA Antibody (Y10b)

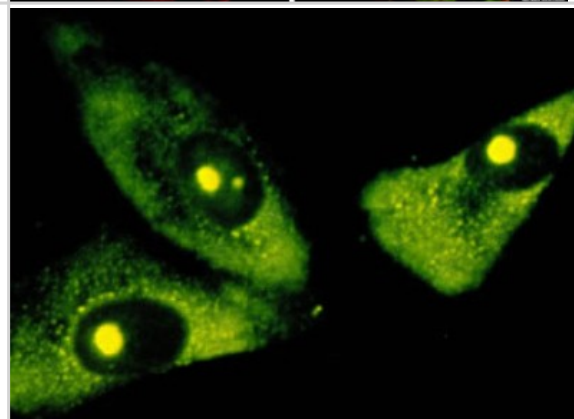
Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	Y10b
Preservative	0.05% Sodium Azide
Isotype	IgG3 Kappa
Purity	Protein A purified
Buffer	1M Tris, 1.5M NaCl, 100mM Glycine
Product Description	
Host	Mouse
Species	All Species
Species Reactivity	This antibody reacts with all eukaryotes.
Specificity/Sensitivity	This is specific for ribosomal RNA. There is no cross-reactivity with other RNAs.
Immunogen	The whole 5.8S ribosomal RNA.
Product Application Details	
Applications	Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:2500, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation 10 ul/lysate
Application Notes	This rRNA Antibody (Y10b) is useful for Immunocytochemistry/Immunofluorescence and Immunoprecipitation. In ICC/IF, staining was observed in Ribosomes in the nucleoli and cytoplasm of Ntera2 cells.

Images

Immunocytochemistry/Immunofluorescence: rRNA Antibody (Y10b) [NB100-662] - rRNA antibody was tested in Ntera-2 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Immunocytochemistry/Immunofluorescence: rRNA Antibody (Y10b) [NB100-662] - Staining of rRNA in vero cells.



Publications

Fischer S, Gesierich S, Griemert B et al. Extracellular RNA liberates Tumor-Necrosis-Factor-alpha to promote tumor cell trafficking and progression. *Cancer Res* 2013 Jun 17 [PMID: 23774209] (IHC-P, ICC/IF, Human)

3) Bleher, R, Martin, R. Ribosomes in the squid giant axon. *Neuroscience*;107(3):527-34. 2001 [PMID: 11719007] (ICC/IF, Plant, Other)

9) Thomas, MG, Martinez Tosar, LJ, Loschi, M, Pasquini, JM, Correale, J, Kindler, S, Boccaccio, GL. Staufen recruitment into stress granules does not affect early mRNA transport in oligodendrocytes. *Mol Biol Cell*;16(1):405-20. 2005 Jan. [PMID: 15525674]

7) Sotelo-Silveira, JR, Calliari, A, Cardenas, M, Koenig, E, Sotelo, JR. Myosin Va and kinesin II motor proteins are concentrated in ribosomal domains (periaxoplasmic ribosomal plaques) of myelinated axons. *J Neurobiol*;60(2):187-96. 2004 Aug. [PMID: 15266650] (ICC/IF, Fish)

2) Anderson, KD, Merhege, MA, Morin, M, Bolognani, F, Perrone-Bizzozero, NI. Increased expression and localization of the RNA-binding protein HuD and GAP-43 mRNA to cytoplasmic granules in DRG neurons during nerve regeneration. *Exp Neurol*;183(1):100-8. 2003 Sep. [PMID: 12957493]

1) Aakalu, G, Smith, WB, Nguyen, N, Jiang, C, Schuman, EM. Dynamic visualization of local protein synthesis in hippocampal neurons. *Neuron*;30(2):489-502. 2001 May. [PMID: 11395009] (ICC/IF, Rat)

13) Garden, GA et al. Protein masking of a ribosomal RNA epitope is an early event in afferent deprivation-induced neuronal death. *Mol Cell Neurosci*;6(3):293-310. 1995 Jun. [PMID: 7496633] (IHC, Chicken)

11) Lerner, EA, Lerner, MR, Janeway, CA, Steitz, JA. Monoclonal antibodies to nucleic acid-containing cellular constituents: probes for molecular biology and autoimmune disease. *Proc Natl Acad Sci U S A*;78(5):2737-41. 1981 May. [PMID: 6789322] (IP, Mouse)

6) Jablonka, S, Wiese, S, Sendtner, M. Axonal defects in mouse models of motoneuron disease. *J Neurobiol*;58(2):272-86. 2004 Feb 5. [PMID: 14704958] (ICC/IF, Mouse)

10) Zheng, J, Kelly, TK, Chang, B, Ryazantsev, S, Rajasekaran, AK, Martin, KC, Twiss, JL. A functional role for intra-axonal protein synthesis during axonal regeneration from adult sensory neurons. *J Neurosci*;21(23):9291-303. 2001 Dec 1. [PMID: 11717363] (ICC/IF, IP, Rat)

12) Abou, ES, Nazar, RN. Role of the 5.8S rRNA in ribosome translocation. *Nucleic Acids Res*. 25(9):1788-94. 1997 May 1. [PMID: 9108162]

5) Gallouzi, IE, Brennan, CM, Stenberg, MG, Swanson, M, Eversole, A, Maizels, N, Steitz, JA. HuR binding to cytoplasmic mRNA is perturbed by heat shock. *Proc Natl Acad Sci U S A*. 97(7):3073-8. 2000 Mar 28. [PMID: 10737787]

More publications at <http://www.novusbio.com/NB100-662>



Procedures

Immunocytochemistry Protocol Specific for rRNA Antibody (Y10b) (NB100-662)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

