abcam

Product datasheet

Anti-Nucleolin antibody ab50279

25 References   1 Image

Overview

Product name	Anti-Nucleolin antibody
Description	Rabbit polyclonal to Nucleolin
Host species	Rabbit
Tested applications	**Suitable for:** WB, Flow Cyt, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Cynomolgus monkey, Orangutan ⚠
Immunogen	Synthetic peptide:
	VKLAKAGKNQGDPKKMA
	conjugated to KLH, corresponding to N terminal amino acids 2-17 of Human Nucleolin with a C-terminal added cysteine.

                                          📄 **Run BLAST with**   📄 **Run BLAST with**

General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
Purity	Immunogen affinity purified
Purification notes	This antibody has been affinity-purified using the immunizing peptide immobilized on agarose.
Clonality	Polyclonal

Isotype	IgG

Applications

Our **Abpromise guarantee** covers the use of ab50279 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. PubMed: 20814900 **ab171870** - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 10 - 20 µg/ml.
IP		Use at an assay dependent concentration. 1-2 ug/ml immunoprecipitates Nucleolin from 250 ug RIPA lysate of human HeLa cells.

Target

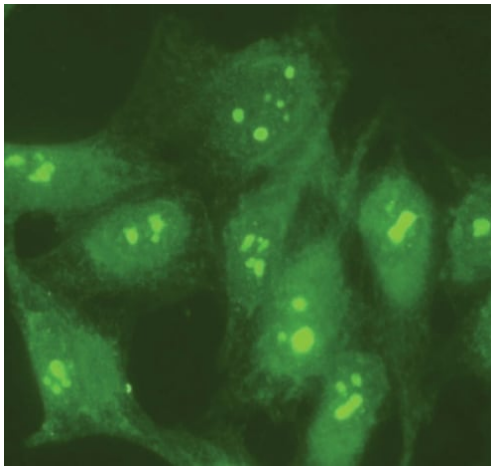|	
Function	Nucleolin is the major nucleolar protein of growing eukaryotic cells. It is found associated with intranucleolar chromatin and pre-ribosomal particles. It induces chromatin decondensation by binding to histone H1. It is thought to play a role in pre-rRNA transcription and ribosome assembly. May play a role in the process of transcriptional elongation. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats.
Sequence similarities	Contains 4 RRM (RNA recognition motif) domains.
Post-translational modifications	Some glutamate residues are glycylated by TTLL8. This modification occurs exclusively on glutamate residues and results in a glycine chain on the gamma-carboxyl group.
Cellular localization	Nucleus > nucleolus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images

Indirect Immunofluorescence

Human HeLa cells were fixed and permeabilized with 4% paraformaldehyde followed by 0.5% Triton X-100. Fixed cells were stained with 10 µg/mL Anti-Nucleolin (ab50279). The antibody was developed with Goat Anti-Rabbit IgG, FITC conjugate.

Immunocytochemistry/ Immunofluorescence - Anti-Nucleolin antibody (ab50279)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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