

LYAR Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51324

Specification

LYAR Antibody - Product Information

Application	WB, IP, IHC-P, E
Primary Accession	O9NX58
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44 KDa

LYAR Antibody - Additional Information

Gene ID 55646

Other Names

Cell growth-regulating nucleolar protein, LYAR

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

LYAR Antibody - Protein Information

Name LYAR

Function

Plays a role in the maintenance of the appropriate processing of 47S/45S pre-rRNA to 32S/30S pre-rRNAs and their subsequent processing to produce 18S and 28S rRNAs (PubMed: [24495227](http://www.uniprot.org/citations/24495227)). Also acts at the level of transcription regulation. Along with PRMT5, binds the gamma-globin (HBG1/HBG2) promoter and represses its expression (PubMed: [25092918](http://www.uniprot.org/citations/25092918)). In neuroblastoma cells, may also repress the expression of oxidative stress genes, including CHAC1, HMOX1, SLC7A11, ULBP1 and SNORD41 that encodes a small nucleolar RNA (PubMed: [28686580](http://www.uniprot.org/citations/28686580)). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (PubMed: [25092918](http://www.uniprot.org/citations/25092918)). Negatively regulates the antiviral innate immune response by targeting IRF3 and impairing its DNA-binding activity (PubMed: [31413131](http://www.uniprot.org/citations/31413131)). In addition, inhibits NF-kappa-B-mediated expression of pro-inflammatory cytokines (PubMed: [31413131](http://www.uniprot.org/citations/31413131)). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells (By similarity). Prevents nucleolin/NCL self-cleavage, maintaining a

normal steady-state level of NCL protein in undifferentiated embryonic stem cells (ESCs), which in turn is essential for ESC self-renewal (By similarity).

Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q08288}. Note=Component of pre- ribosomal particles, including pre-40S, pre-60S and pre-90S (PubMed:24495227). Associated with cytoplasmic ribosomes, but not polysomes, as a component of the 60S subunit (PubMed:24990247). In the retina, predominantly expressed in photoreceptor outer segments (By similarity). In the nucleolus, colocalizes with nucleolin/NCL, therefore may reside in the dense fibrillar component (DFC) (By similarity). {ECO:0000250|UniProtKB:Q08288, ECO:0000269|PubMed:24495227, ECO:0000269|PubMed:24990247}

Tissue Location

Predominantly expressed in testis.

LYAR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LYAR Antibody - Images**LYAR Antibody - References**

Wiemann S., et al. *Genome Res.* 11:422-435(2001).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Yu W.-Q., et al. Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.