

# LYAR Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51324

## Product Information

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Application	WB, IP, IHC-P
Primary Accession	<a href="#">Q9NX58</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43634

## Additional Information

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Gene ID	55646
Other Names	Cell growth-regulating nucleolar protein, LYAR
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human LYAR. The exact sequence is proprietary.
Dilution	WB~~1:1000 IP~~N/A IHC-P~~N/A
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

## Protein Information

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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: <a href="#">24495227</a> ). Also acts at the level of transcription regulation. Along with PRMT5, binds the gamma-globin (HBG1/HBG2) promoter and represses its expression (PubMed: <a href="#">25092918</a> ). 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: <a href="#">28686580</a> ). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (PubMed: <a href="#">25092918</a> ). Negatively regulates the antiviral innate immune response by targeting IRF3 and impairing its DNA-binding activity (PubMed: <a href="#">31413131</a> ). In addition, inhibits NF-kappa-B-mediated expression of pro-inflammatory cytokines (PubMed: <a href="#">31413131</a> ). 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.

## References

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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.

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