

## LYAR Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7328a

## **Specification**

## LYAR Antibody (N-term) Blocking Peptide - Product Information

**Primary Accession** 

**09NX58** 

# LYAR Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID 55646** 

#### **Other Names**

Cell growth-regulating nucleolar protein, LYAR

## Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/products/AP7328a>AP7328a</a> was selected from the N-term region of human LYAR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# LYAR Antibody (N-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/24495227" target="\_blank">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="http://www.uniprot.org/citations/25092918" target="\_blank">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="http://www.uniprot.org/citations/28686580" target="\_blank">28686580</a>). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (PubMed:<a

href="http://www.uniprot.org/citations/25092918" target="\_blank">25092918</a>). Negatively regulates the antiviral innate immune response by targeting IRF3 and impairing its DNA-binding



activity (PubMed:<a href="http://www.uniprot.org/citations/31413131" target="\_blank">31413131</a>). In addition, inhibits NF-kappa-B-mediated expression of pro-inflammatory cytokines (PubMed:<a href="http://www.uniprot.org/citations/31413131" target="\_blank">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.

## LYAR Antibody (N-term) Blocking Peptide - Protocols

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

• Blocking Peptides

LYAR Antibody (N-term) Blocking Peptide - Images

LYAR Antibody (N-term) Blocking Peptide - References

Kim, J.E., Tannenbaum, S.R. J. Proteome Res. 4 (4), 1339-1346 (2005) Su, L., Hershberger, R.J. Genes Dev. 7 (5), 735-748 (1993)