

**PURB Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12051B**

**Specification**

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**PURB Antibody (C-term) - Product Information**

Application	IF, WB, FC,E
Primary Accession	<a href="#">O96QR8</a>
Other Accession	<a href="#">O68A21</a> , <a href="#">O35295</a> , <a href="#">NP_150093.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	260-289

**PURB Antibody (C-term) - Additional Information**

**Gene ID** 5814

**Other Names**

Transcriptional activator protein Pur-beta, Purine-rich element-binding protein B, PURB

**Target/Specificity**

This PURB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 260-289 amino acids from the C-terminal region of human PURB.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PURB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PURB Antibody (C-term) - Protein Information**

**Name** PURB

**Function** Transcriptional regulator which can act as an activator or a repressor. Represses the transcription of ACTA2 in fibroblasts and smooth muscle cells via its ability to interact with the purine-rich strand of a MCAT- containing element in the 5' flanking region of the gene. Represses the transcription of MYOCD, capable of repressing all isoforms of MYOCD but the magnitude of the repressive effects is most notable for the SMC- specific isoforms. Promotes hepatic glucose production by activating the transcription of ADCY6, leading to cAMP accumulation, increased PKA activity, CREB activation, and increased transcription of PCK1 and G6PC genes (By similarity). Has capacity to bind repeated elements in single-stranded DNA such as the purine-rich single strand of the PUR element located upstream of the MYC gene (PubMed:[1448097](#)). Participates in transcriptional and translational regulation of alpha-MHC expression in cardiac myocytes by binding to the purine-rich negative regulatory (PNR) element Modulates constitutive liver galectin-3 gene transcription by binding to its promoter. May play a role in the dendritic transport of a subset of mRNAs (By similarity).

#### **Cellular Location**

Nucleus.

#### **Tissue Location**

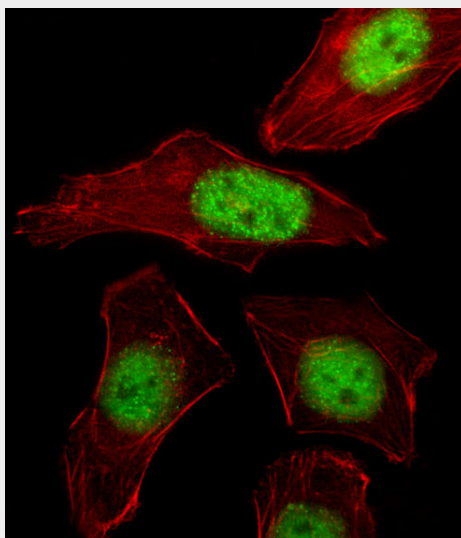
Expressed in myocardium of heart failure patients.

#### **PURB Antibody (C-term) - Protocols**

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

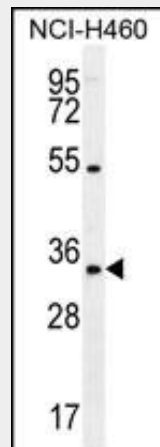
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **PURB Antibody (C-term) - Images**

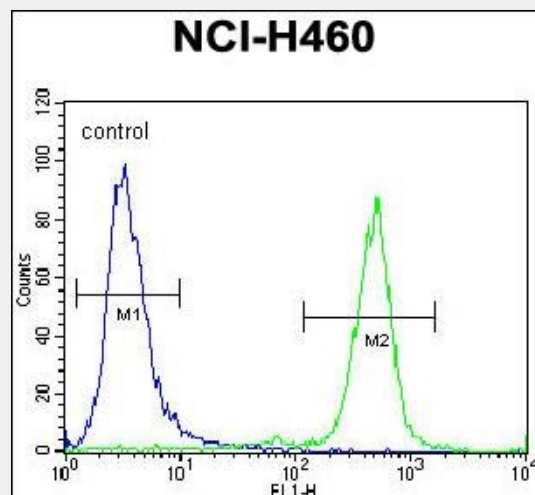


Fluorescent image of A549 cell stained with PURB Antibody (C-term)(Cat#AP12051b).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated

with PURB primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). PURB immunoreactivity is localized to Nucleus significantly.



PURB Antibody (C-term) (Cat. #AP12051b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the PURB antibody detected the PURB protein (arrow).



PURB Antibody (C-term) (Cat. #AP12051b) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **PURB Antibody (C-term) - Background**

This gene product is a sequence-specific, single-stranded DNA-binding protein. It binds preferentially to the single strand of the purine-rich element termed PUR, which is present at origins of replication and in gene flanking regions in a variety of eukaryotes from yeasts through humans. Thus, it is implicated in the control of both DNA replication and transcription. Deletion of this gene has been associated with myelodysplastic syndrome and acute myelogenous leukemia.

### **PURB Antibody (C-term) - References**

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Ramsey, J.E., et al. Biochemistry 48(27):6348-6360(2009)

Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
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