



Rabbit Anti-PURB antibody

SL4435R

Product Name:	PURB
Chinese Name:	转录激活蛋白PURB抗体
Alias:	Pur beta; purB; PURB_HUMAN; PURBETA; Purine rich element binding protein B; Purine-rich element-binding protein B; transcriptional activator protein Pur beta; Transcriptional activator protein Pur-beta.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PURB:201-312/312
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Jul 2008]

Function:

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. Plays a role in the control of vascular smooth muscle (VSM) alpha-actin gene transcription as repressor in myoblasts and fibroblasts. 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.

Subunit:

Homodimer, heterodimer with PURA and heterotrimer with PURA and YBX1/Y-box protein 1.

Subcellular Location:

Nucleus.

Tissue Specificity:

Expressed in myocardium of heart failure patients.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Belongs to the PUR DNA-binding protein family.

SWISS:

Q96QR8

Gene ID:

5814

Database links:

[Entrez Gene: 5814](#) Human

[Entrez Gene: 19291](#) Mouse

[Entrez Gene: 498407](#) Rat

[Omim: 608887](#) Human

[SwissProt: Q96QR8](#) Human

[SwissProt: O35295](#) Mouse

[SwissProt: Q68A21](#) Rat

[Unigene: 349150](#) Human

[Unigene: 596321](#) Human

[Unigene: 728785](#) Human

[Unigene: 296150](#) Mouse

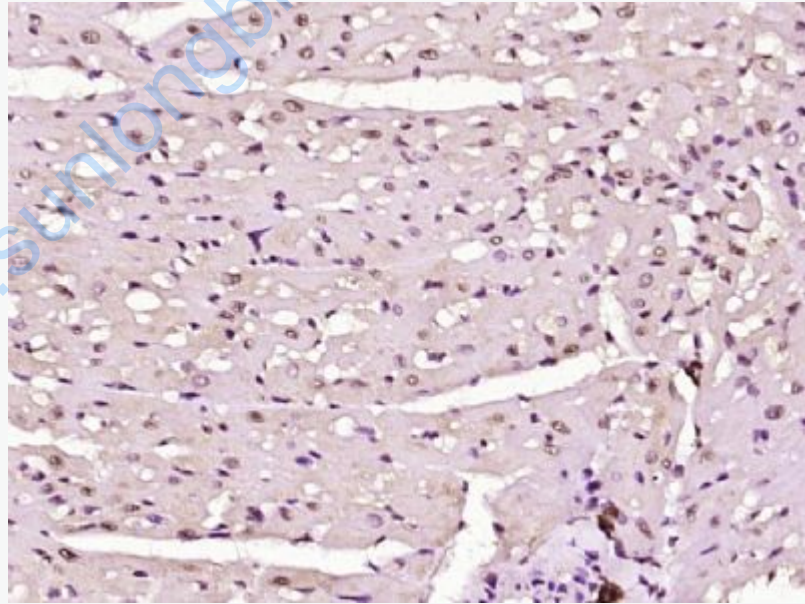
[Unigene: 390332](#) Mouse

[Unigene: 156213](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PURB) Polyclonal Antibody, Unconjugated

(SL4435R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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