

PURB Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12051b**Specification**

PURB Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q96QR8](#)**PURB Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5814**Other Names**

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

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.

PURB Antibody (C-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PURB Antibody (C-term) Blocking peptide - Images**PURB Antibody (C-term) Blocking peptide - Background**

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

PURB Antibody (C-term) Blocking peptide - References

Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)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)Olsen, J.V., et al. Cell 127(3):635-648(2006)