10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PURA Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant PURA.
Catalog # AT3502a

Product Information

Application	WB, E
Primary Accession	Q00577
Other Accession	NM_005859
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A9
Calculated MW	34911

Additional Information

Gene ID	5813
Other Names	Transcriptional activator protein Pur-alpha, Purine-rich single-stranded DNA-binding protein alpha, PURA, PUR1
Target/Specificity	PURA (NP_005850, 183 a.a. ~ 292 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PURA Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

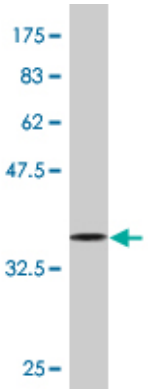
This gene product is a sequence-specific, single-stranded DNA-binding protein. It binds preferentially to the single strand of the purine-rich element termed PUR, which is present at origins of replication and in gene flanking regions in a variety of eukaryotes from yeasts through humans. Thus, it is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

References

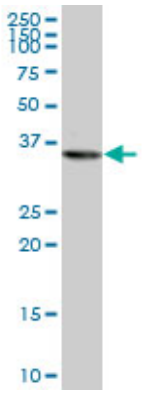
Purine-rich element binding protein (PUR) alpha induces endoplasmic reticulum stress response, and cell

differentiation pathways in prostate cancer cells. Inoue T, et al. Prostate, 2009 Jun 1. PMID 19267365.Prefrontal cortex shotgun proteome analysis reveals altered calcium homeostasis and immune system imbalance in schizophrenia. Martins-de-Souza D, et al. Eur Arch Psychiatry Clin Neurosci, 2009 Apr. PMID 19165527.Protective role of Puralpha to cisplatin. Kaminski R, et al. Cancer Biol Ther, 2008 Dec. PMID 18927497.Negative regulation of AbetaPP gene expression by pur-alpha. Darbinian N, et al. J Alzheimers Dis, 2008 Sep. PMID 18780968.Androgen receptor overexpression in prostate cancer linked to Pur alpha loss from a novel repressor complex. Wang LG, et al. Cancer Res, 2008 Apr 15. PMID 18413735.

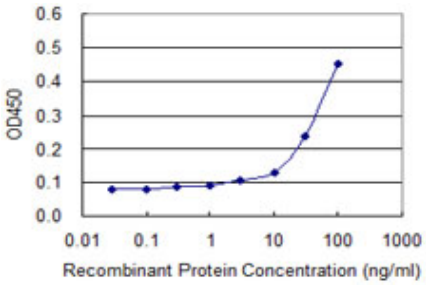
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



PURA monoclonal antibody (M05), clone 3A9. Western Blot analysis of PURA expression in PC-12 ((Cat # AT3502a)



Detection limit for recombinant GST tagged PURA is approximately 10ng/ml as a capture antibody.