

Human ANP32A / PHAP1 Protein (His & GST Tag)

Catalog Number: 11942-H20E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

C15orf1; HPPCn; I1PP2A; LANP; MAPM; PHAP1; PHAPI; PP32

Protein Construction:

A DNA sequence encoding the of human ANP32A (NP_006296.1) (Glu 2-Lys 238) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human ANP32A/GST chimera consists of 479 amino acids and has a calculated molecular mass of 55.4 kDa. It migrates as an approximately 50 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 10% glycerol, 1mM DTT, 0.5mM GSH

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

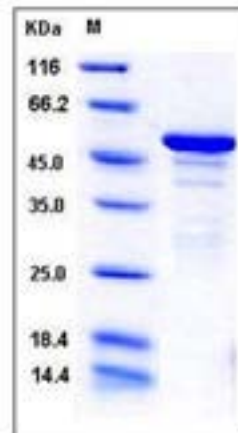
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

acidic leucine-rich nuclear phosphoprotein 32 family member A, also known as acidic nuclear phosphoprotein pp32, Leucine-rich acidic nuclear protein, Mapmodulin, Potent heat-stable protein phosphatase 2A inhibitor I1PP2A, Putative HLA-DR-associated protein I, PHAPI and ANP32A, is a nucleus, cytoplasm and endoplasmic reticulum. ANP32A / LANP is expressed in all tissues tested. It is highly expressed in kidney and skeletal muscle, moderate levels of expression is in brain, placenta and pancreas. ANP32A / LANP is weakly expressed in lung. It is found in all regions of the brain examined (amygdala, caudate nucleus, corpus callosum, hippocampus and thalamus), with highest levels in amygdala. ANP32A / LANP is a component of the SET complex, which also contains SET, APEX1, HMGB2 and NME1. It directly interacts with SET. ANP32A / LANP also interacts with ATXN1/SCA1. ANP32A / LANP is implicated in a number of cellular processes, including proliferation, differentiation, caspase-dependent and caspase-independent apoptosis, suppression of transformation (tumor suppressor), inhibition of protein phosphatase 2A, regulation of mRNA trafficking and stability in association with ELAVL1, and inhibition of acetyltransferases as part of the INHAT (inhibitor of histone acetyltransferases) complex. ANP32A / LANP plays a role in E4F1-mediated transcriptional repression.

References

1.Bai J.et al., 2001, Oncogene. 20: 2153-60. 2.Brody J.R.et al.,1999, J. Biol. Chem. 274:20053-5. 3.Tsujio I.et al., 2005, FEBS Lett. 579: 363-72.

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