

Product datasheet

Recombinant Human AK6 protein ab104633

1 Image

Description

Product name	Recombinant Human AK6 protein
Purity	> 90 % SDS-PAGE. ab104633 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>Q9Y3D8</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSH MLLPNILLGTPGVGKTTL GKELASKSGLK YINVGLAREEQLYDGYDEEYDCPILEDVRVDELDNQMR EGGVVDYHG CDFFPERWFHMFVLRTDTNVLIERLETRGYNEKKLTDNIQ CEIFQVLYE EATASYKEENVHQLPSNKPEELENNDQILKWIEQWIKDHN S
Predicted molecular weight	22 kDa
Amino acids	1 to 172
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab104633** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Function

Broad-specificity nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. AMP and dAMP are the preferred substrates, but CMP and dCMP are also good substrates. IMP is phosphorylated to a much lesser extent. All nucleoside triphosphates ATP, GTP, UTP, CTP, dATP, dCTP, dGTP, and TTP are accepted as phosphate donors. CTP is the best phosphate donor, followed by UTP, ATP, GTP and dCTP. May have a role in nuclear energy homeostasis. Has also ATPase activity. May be involved in regulation of Cajal body (CB) formation.

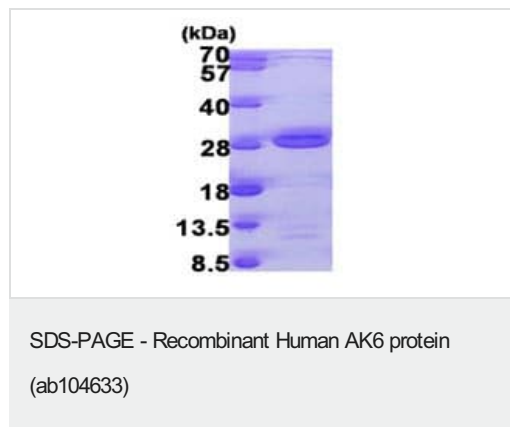
Sequence similarities

Belongs to the adenylate kinase family. AK6 subfamily.

Cellular localization

Nucleus > nucleoplasm. Nucleus > Cajal body. Displays widespread diffuse nucleoplasmic distribution but not detected in nucleoli. Detected in Cajal bodies but not in all cells.

Images



15% SDS-PAGE showing ab104633 (3 µg) at approximately 22.2 kDa. (Molecular weight on SDS-PAGE will appear higher).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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