

Recombinant Human Reptin/TIP49B/RUVB2 protein (His tag) ab225966

1 Image

Description

Product name	Recombinant Human Reptin/TIP49B/RUVB2 protein (His tag)		
Purity	> 90 % SDS-PAGE.		
Expression system	Escherichia coli		
Accession	<u>Q9Y230</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	ATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQAS QGMVGQLA ARRAAGVVLEMIREGKIAGRAVLIAGQPGTGKTAIAMGMA QALGPDTPFT AIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEI QIDRPA TGTGSKVGKLTCLKTTEMETIYDLGTMIESLTKDKVQAGDVI TIDKATGK ISKLGRSFTRARDYDAMGSQTKFVQCPDGELQKRKEVVH TVSLHEIDVIN SRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEII PGVLFIDEV HMLDIESFSFLNRALES DMAPVLIMATNRGITRIGTSYQSP HGIPIDLL DRLLVSTTPYSEKDTKQILRIRCEEEDVEMSEDAYTVLTRI GLETSRLY AIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQY MKEYQDAFL FNELKGETMDTS		
Predicted molecular weight	67 kDa including tags		
Amino acids	2 to 463		
Tags	His tag N-Terminus		
Additional sequence information	6xHis-SUMO tag at the N-terminus.		

Specifications

Our **Abpromise guarantee** covers the use of **ab225966** 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

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
pH: 7.2
Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

General Info

Function Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5' to 3') activity. Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. RUVBL2 plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. May also inhibit the transcriptional activity of ATF2.

Tissue specificity Ubiquitously expressed. Highly expressed in testis and thymus.

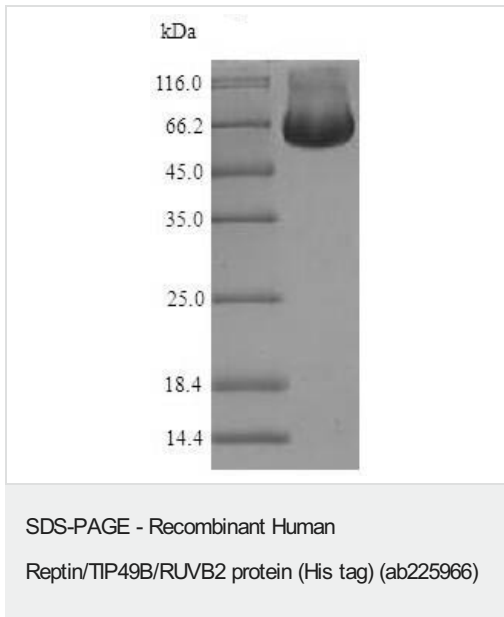
Sequence similarities Belongs to the ruvB family.

Domain The C-terminal domain is required for association with ATF2.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Nucleus matrix. Nucleus > nucleoplasm. Cytoplasm. Membrane. Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol. Although it is also present in the cytoplasm and associated with the cell membranes.

Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab225966 with 5% enrichment gel and 15% separation gel.

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

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