

Human RUVBL1 / RVB1 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14074-H07B

General Information

Gene Name Synonym:

ECP54; INO80H; NMP238; PONTIN; Pontin52; RVB1; TIH1; TIP49; TIP49A

Protein Construction:

A DNA sequence encoding the human RUVBL1 (Q9Y265-1) (Met1-Lys456) was fused with a polyhistide tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

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

Predicted N terminal: His

Molecular Mass:

The recombinant human RUVBL1 consists of 474 amino acids and has a calculated molecular mass of 52.4 kDa. The recombinant protein migrates as an approximately 57 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol

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:

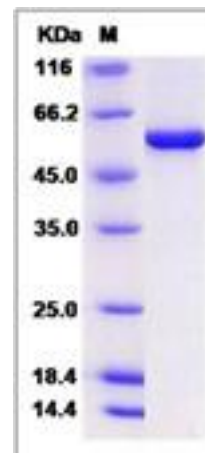
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

RUVBL1, also known as RVB1, is a component of the NuA4 histone acetyltransferase complex and belongs to the RuvB family. RUVBL1 is ubiquitously expressed with high expression in heart, skeletal muscle and testis. It possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity. RUVBL1 is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. RUVBL1 plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. It also is essential for cell proliferation. RUVBL1 may be able to bind plasminogen at cell surface and enhance plasminogen activation.

References

1. Bauer A, *et al.* (1998) Pontin52, an interaction partner of beta-catenin, binds to the TATA box binding protein. *Proc Natl Acad Sci.* 95(25):14787-92.
2. Ewing, *et al.* (2007) Large-scale mapping of human protein-protein interactions by mass spectrometry. *Mol Syst Biol.* 3(1):89.
3. Puri T, *et al.* (2007) Dodecameric structure and ATPase activity of the human TIP48/TIP49 complex. *J Mol Biol.* 366(1):179-92.

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