

Recombinant Human RuvB-like 2(RUVBL2)

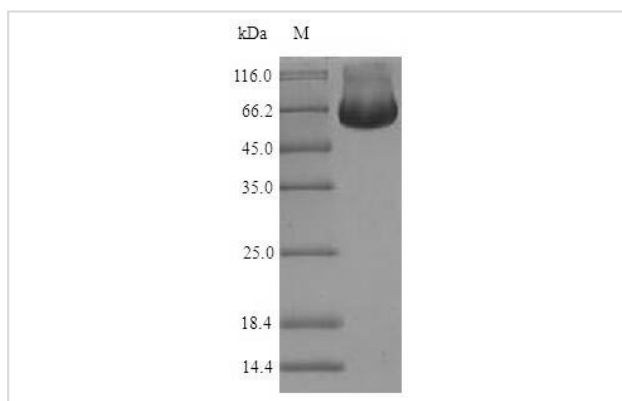
Catalog No: #AP74531

Package Size: #AP74531-1 20ug #AP74531-2 100ug #AP74531-3 1mg

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Description

Product Name	Recombinant Human RuvB-like 2(RUVBL2)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-463aaSequence Info:Full Length
Other Names	48KDA TATA box-binding protein-interacting protein Short name: 48KDA TBP-interacting protein 51KDA erythrocyte cytosolic protein Short name: ECP-51 INO80 complex subunit J Repressing pontin 52 Short name: Reptin 52 TIP49b TIP60-associated protein 54-beta Short name: TAP54-beta
Accession No.	Q9Y230
Uniprot	Q9Y230
GeneID	10856;
Calculated MW	67 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	ATVTATTKVPEIRDVTRIERIGASHIRGLGLDDALEPRQASQGMVGLAARRAAGVVLEMIREGKIAGRAVLIA GQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRPAT GTGSKVGKLTLLKTTMETIYDLGTMIESLTKDKVQAGDVITDKATGKISKLGSRFTRARDYDAMGSQTKFVQ CPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDEV HMLDIESFSFLNRAESDMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKILRIRCEEE DVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESIRSTQYMKEYQDAFLFN ELKGETMDTS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



Background

Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5' to 3') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase 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. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z, H2AFZ from the nucleosome.

Proposed core component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair.

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.

Involved in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway where it negatively regulates expression of ER stress response genes.

References

"Genome-wide screen identifies a novel p97, CDC-48-dependent pathway regulating ER-stress-induced gene transcription." Marza E., Taouji S., Barroso K., Raymond A.A., Guignard L., Bonneau M., Pallares-Lupon N., Dupuy J.W., Fernandez-Zapico M.E., Rosenbaum J., Palladino F., Dupuy D., Chevet E. EMBO Rep. 16:332-340(2015) Research Topic: Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only