

Recombinant Human DNA-directed RNA polymerase III subunit RPC10(POLR3K)

Catalog No: #AP70650

Package Size: #AP70650-1 20ug #AP70650-2 100ug #AP70650-3 1mg

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Description

Product Name	Recombinant Human DNA-directed RNA polymerase III subunit RPC10(POLR3K)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-108aaSequence Info:Full Length
Other Names	DNA-directed RNA polymerase III subunit KRNA polymerase III 12.5KDA subunit ;RPC12.5RNA polymerase III subunit C11 ;HsC11p ;RPC11 ;hRPC11
Accession No.	Q9Y2Y1
Calculated MW	28.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MLLFCPGCGNGLIVEEGQRCHRFSCNTCPYVHNITRKVTNRKYPKLKEVDDVLGGAAAWENV DSTAESCPKC EHPRAYFMQLQTRSADEPMTTFYKCCNAQCGHRWRD
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

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway .

References

Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Research Topic:Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.