

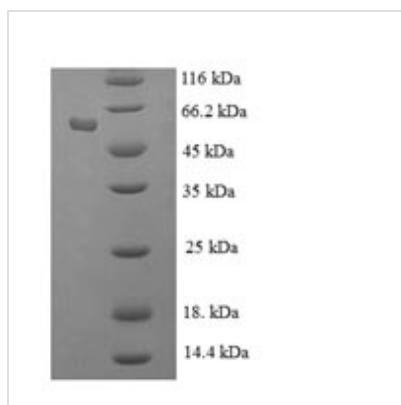


Recombinant Human Histone-binding protein RBBP7 (RBBP7)

Product Code	CSB-EP621959HU
Relevance	Core histone-binding subunit that may target chromatin remodeling factors, histone acetyltransferases and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA. Component of several complexes which regulate chromatin metabolism. These include the type B histone acetyltransferase (HAT) complex, which is required for chromatin assembly following DNA replication; the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and consequent transcriptional repression; the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling; and the PRC2/EED-EZH2 complex, which promotes repression of homeotic genes during development; and the NURF (nucleosome remodeling factor) complex.
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.
Uniprot No.	Q16576
Alias	Histone acetyltransferase type B subunit 2Nucleosome-remodeling factor subunit RBAP46Retinoblastoma-binding protein 7 ;RBBP-7Retinoblastoma-binding protein p46
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MASKEMFEDTVEERVINEEYKIWKKNTPFLYDLVMTHALQWPSLTVQWLPEVT KPEGKDYALHWLVLGTHTSDEQNHVVVARVHIPNDDAQFDASHCDSKGEFG GFGSVTGKIECEIKINHEGEVNRARYMPQNPHIATKTPSSDVLVFDYTKHPAK PDPSGECNPDRLRLRGHQKEGYGLSWNSNLSGHLLSASDDHTVCLWDINAGP KEGKIVDAKAIFTGHSVVEDVAWHLLHESLFGSVADDQKLMIWDTRSNTTSK PSHLVDAHTAEVNCLSFNPYSEFILATGSADKTVALWDLRNLKLKLHTFESHKD EIFQVHWSPHNETILASSGTDRLNVWDLISKIGEEQSAEDAEDGPPELLFIHG GHTAKISDFSWNPNEPWVICSVSEDNIMQIWQMAENIYNDEESDVTTSELEGQ GS
Lead Time	3-7 business days
Research Area	Transcription
Source	E.coli
Gene Names	RBBP7
Expression Region	1-425aa



Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	63.8kDa
Protein Description	Full Length

Image


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

Description

The expression region of this recombinant Human RBBP7 covers amino acids 1-425. This RBBP7 protein is expected to have a theoretical molecular weight of 63.8 kDa. The RBBP7 protein was expressed in e.coli. Fusion of the N-terminal 6xHis-SUMO tag into the RBBP7 encoding gene fragment was conducted, allowing for easier detection and purification of the RBBP7 protein in subsequent stages.

Human Retinoblastoma-Binding Protein 7 (RBBP7) is a histone-binding protein essential for chromatin remodeling and gene regulation. As a subunit of various chromatin-modifying complexes, RBBP7 participates in epigenetic processes, influencing transcriptional activation and repression. In cell cycle regulation, RBBP7 interacts with tumor suppressor proteins, impacting cell proliferation. In cancer research, RBBP7 is implicated in tumorigenesis and metastasis, making it a potential therapeutic target. Additionally, RBBP7 plays a role in stem cell maintenance and differentiation. Investigating RBBP7's functions enhances the understanding of epigenetic mechanisms, offering avenues for research in cancer biology, developmental biology, and therapeutic strategies targeting chromatin dynamics.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.