

## RBM14 Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P71612
<b>Synonyms:</b>	RBM14; SIP; RNA-binding protein 14; Paraspeckle protein 2; PSP2; RNA-binding motif protein 14; RRM-containing coactivator activator/modulator; Synaptotagmin-interacting protein; SYT-interacting protein
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q96PK6 (M1-M669)
<b>Gene ID:</b>	10432
<b>Molecular Weight:</b>	Approximately 85.5 kDa

### PROPERTIES

#### AA Sequence

MKIFVGNVDG	ADTTPEELAA	LFAPYGTVMS	CAVMKQFAFV
HMRENAGALR	AIEALHGHEL	RPGRALVVEM	SRPRPLNTWK
IFVGNVSAAC	TSQELRSLFE	RRGRVIECDV	VKDYAFVHME
KEADAKAAIA	QLNGKEVKGK	RINVELSTKG	QKKGPG LAVQ
SGDKTKKPGA	GDTAFPGTGG	FSATFDYQQA	FGNSTGGFDG
QARQPTPPFF	GRDRSPLRRS	PPRASVYVAPL	TAQPATYRAQ
PSVSLGAAAYR	AQPSASLGVG	YRTQPMTAQA	ASYRAQPSVS
LGAPYRGQLA	SPSSQSAAAS	SLGPYGGAQP	SASALSSYGG
QAAAASSLNS	YGAQGS SLAS	YGNQPSSYGA	QAASSYGVRA
AASSYNTQGA	ASSLGSYGAQ	AASYGAQSAA	SSLAYGAQAA
SYNAQPSASY	NAQSAPYAAQ	QAASYSSQPA	AYVAQPATAA
AYASQPAAYA	AQATTPMAGS	YGAQPVVQTQ	LNSYGAQASM
GLSGSYGAQS	AAAATGSYGA	AAAYGAQPSA	TLAAPYRTQS
SASLAASYAA	QQHPQAAASY	RGQPGNAYDG	AGQP SAAYLS
MSQGAVANAN	STPPPYERTR	LSPPRASYDD	PYKKAVAMSK
RYGSDRRLAE	LSDYRRLSES	QLSFRRSPTK	SSLDYRRLPD
AHSDYARYSG	SYNDYLRAAQ	MHSGYQRRM	

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

RBM14 protein exhibits diverse functional roles depending on its isoform. Isoform 1 acts as a nuclear receptor coactivator, enhancing transcription through interactions with coactivators such as NCOA6 and CITED1. In contrast, Isoform 2 functions as a transcriptional repressor, modulating the activities of coactivators, including Isoform 1, NCOA6, and CITED1. Notably, RBM14 is implicated in the regulation of centriole biogenesis, where it suppresses the formation of aberrant centriolar protein complexes, ensuring the integrity of the mitotic spindle. Additionally, RBM14 plays a crucial role in the DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, serving as a platform for IRF3 phosphorylation and activating the innate immune response through the cGAS-STING pathway. Interactions with various proteins, including NCOA6, CITED1, XRCC5/KU86, SS18 isoforms, STIL, and gamma-tubulin, underscore its involvement in multiple cellular processes and signaling pathways. Furthermore, RBM14's incorporation into the HDP-RNP complex highlights its role in orchestrating innate immune responses against DNA viruses.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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