

Recombinant Mouse Rybp Protein, Myc/DDK-tagged

Cat. No. Rybp-5662M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RING1 and YY1 binding protein (Rybp), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1-like complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. Component of a PRC1-like complex that mediates monoubiquitination of histone H2A 'Lys-119' on the X chromosome and is required for normal silencing of one copy of the X chromosome in XX females. May stimulate ubiquitination of histone H2A 'Lys-119' by recruiting the complex to target sites. Inhibits ubiquitination and subsequent degradation of TP53, and thereby plays a role in regulating transcription of TP53 target genes. May also regulate the ubiquitin-mediated proteasomal degradation of other proteins like FANK1 to regulate apoptosis. May be implicated in the regulation of the transcription as a repressor of the transcriptional activity of E4TF1. May bind to DNA. May play a role in the repression of tumor growth and metastasis in breast cancer by down-regulating SRRM3.
Molecular Mass	24.8 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rybp RING1 and YY1 binding protein [<i>Mus musculus</i> (house mouse)]
Official Symbol	Rybp
Synonyms	RYBP; RING1 and YY1 binding protein; RING1 and YY1-binding protein; DED-associated factor; Ring1 interactor Rybp; death effector domain-associated factor; DEDAF; YEAF1; 2410018J24Rik; MGC62213
Gene ID	56353
mRNA Refseq	NM_019743
Protein Refseq	NP_062717
UniProt ID	Q8CCI5

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