

RBBP4 Protein, Mouse (sf9, His)

Cat. No.:	HY-P74600
Synonyms:	Histone-binding protein RBBP4; CAF-I p48; RBBP-4; RBAP48
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q60972 (M1-S425)
Gene ID:	19646
Molecular Weight:	Approximately 50 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, 10% Glycerol, pH 7.5, 0.5 mM TCEP. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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.

DESCRIPTION

Background	RBBP4, as a core histone-binding subunit, plays a pivotal role in orchestrating the assembly and function of various chromatin-regulating complexes. It serves as a crucial mediator, directing chromatin assembly factors, chromatin remodeling factors, and histone deacetylases to their histone substrates, with regulatory nuances dictated by nucleosomal DNA. RBBP4 is integral to multiple complexes that govern chromatin metabolism, including the chromatin assembly factor 1 (CAF-1), core histone deacetylase (HDAC), nucleosome remodeling and histone deacetylase (NuRD), polycomb repressive complex 2 (PRC2), and nucleosome remodeling factor (NURF). In the CAF-1 complex, alongside CHAF1B and CHAF1A, RBBP4 contributes to chromatin assembly post-DNA replication and repair. As part of the HDAC complex, which includes HDAC1, HDAC2, and RBBP7, RBBP4 facilitates histone deacetylation and transcriptional repression. Additionally, in the NuRD complex, PRC2 complex, and NURF complex, RBBP4 engages in collaborative efforts with various subunits to modulate chromatin structure and gene expression. This multifaceted engagement highlights RBBP4's intricate role in epigenetic regulation, impacting diverse cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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