

Mouse Prpf4b Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14457A

Specification

Mouse Prpf4b Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O61136
Other Accession	NP_038858.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	180-207

Mouse Prpf4b Antibody (N-term) - Additional Information

Gene ID 19134

Other Names

Serine/threonine-protein kinase PRP4 homolog, PRP4 pre-mRNA-processing factor 4 homolog, Pre-mRNA protein kinase, Prpf4b, Cbp143, Prp4h, Prp4k, Prp4m, Prpk

Target/Specificity

This Mouse Prpf4b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-207 amino acids from the N-terminal region of mouse Prpf4b.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Prpf4b Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Prpf4b Antibody (N-term) - Protein Information

Name Prp4k

Synonyms Cbp143, Prp4h, Prp4m, Prpf4b, Prpk

Function Serine/threonine kinase involved in spliceosomal assembly as well as mitosis and signaling regulation. Connects chromatin mediated regulation of transcription and pre-mRNA splicing. During spliceosomal assembly, interacts with and phosphorylates PRPF6 and PRPF31, components of the U4/U6-U5 tri-small nuclear ribonucleoprotein (snRNP), to facilitate the formation of the spliceosome B complex. Plays a role in regulating transcription and the spindle assembly checkpoint (SAC). Associates with U5 snRNP and NCOR1 deacetylase complexes which may allow a coordination of pre-mRNA splicing with chromatin remodeling events involved in transcriptional regulation. Associates and probably phosphorylates SMARCA4 and NCOR1. Phosphorylates SRSF1. Associates with kinetochores during mitosis and is necessary for recruitment and maintenance of the checkpoint proteins such as MAD1L1 and MAD12L1 at the kinetochores. Phosphorylates and regulates the activity of the transcription factors such as ELK1 and KLF13. Phosphorylates nuclear YAP1 and WWTR1/TAZ which induces nuclear exclusion and regulates Hippo signaling pathway, involved in tissue growth control.

Cellular Location

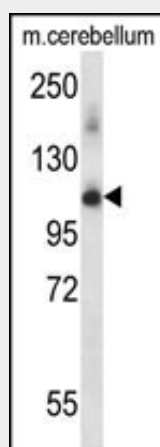
Nucleus. Chromosome, centromere, kinetochore {ECO:0000250|UniProtKB:Q13523}
Note=Located throughout the nucleus, excluding the nucleolus but enriched in multiple speckles.

Mouse Prpf4b Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Prpf4b Antibody (N-term) - Images



Mouse Prpf4b Antibody (N-term) (Cat. #AP14457a) western blot analysis in mouse cerebellum tissue lysates (35ug/lane). This demonstrates the Prpf4b antibody detected the Prpf4b protein (arrow).

Mouse Prpf4b Antibody (N-term) - Background

Prpf4b has a role in pre-mRNA splicing. Phosphorylates SF2/ASF.

Mouse Prpf4b Antibody (N-term) - References

Hoffman, B.G., et al. Genome Biol. 9 (6), R99 (2008) :
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
Cobellis, G., et al. Nucleic Acids Res. 33 (4), E44 (2005) :
Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)
Stryke, D., et al. Nucleic Acids Res. 31(1):278-281(2003)