Revision 6

Store at -20C

#15616

SPT6 (D6J9H) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, ChIP, C&R, C&T	H M R Mk	Endogenous	210	Rabbit IgG	#Q7KZ85	6830

Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:200
Chromatin IP	1:50
CUT&RUN	1:50
CUT&Tag	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SPT6 (D6J9H) Rabbit mAb recognizes endogenous levels of total SPT6 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val112 of human SPT6 protein.

Background

SPT6 or SUPT6H is a histone H3 chaperone protein involved in transcriptional elongation and chromatin structure (1). The SPT6 protein contains a highly acidic N-terminus with leucine zipper and SH2 domains, which can interact with phospho-Rpb1 CTD (Ser2) to recruit SPN1 and other mRNA processing and export factors (2). SPT6 can enhance the elongation rate of RNA polymerase II, and can also maintain the modification state of histone H3 tails. (3-4). Loss of SPT6 causes improper initiation of transcription within coding regions (5).

Background References

1. Bortvin, A. and Winston, F. (1996) *Science* 272, 1473-6.
2. Yoh, S.M. et al. (2007) *Genes Dev* 21, 160-74.
3. Ardehali, M.B. et al. (2009) *EMBO J* 28, 1067-77.
4. Kato, H. et al. (2013) *Sci Rep* 3, 2186.
5. Kaplan, C.D. et al. (2003) *Science* 301, 1096-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **ChIP:** Chromatin IP **C&R:** CUT&RUN **C&T:** CUT&Tag

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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