

#13071 Store at -20°C

Symplekin (D5Y3T) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	141	Rabbit IgG	#Q92797	8189

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

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

Symplekin (D5Y3T) Rabbit mAb recognizes endogenous levels of total symplekin protein.

Species predicted to react based on 100% sequence homology:

Dog, Horse

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human symplekin protein.

Background

Symplekin is necessary for 3'-end cleavage and polyadenylation of mRNAs, histone 3'-end processing and polyadenylation in the cytoplasm (1-5). It is thought to act as a scaffolding protein that brings together factors involved in mRNA 3'-end processing (1,2). Symplekin also plays a role in transcription initiation and termination by RNA polymerase II (RNAPII) through bridging the interaction between the polyadenylation machinery and RNAPII (3,6,7). In addition to its role in mRNA 3'-end processing, research studies have shown that symplekin localizes at epithelial cell tight junctions where it may help to regulate tight junction assembly, thereby maintaining the integrity of the epithelial monolayer and cell polarity (8,9).

Background References

1. Takagaki, Y. and Manley, J.L. (2000) *Mol Cell Biol* 20, 1515-25.
2. Mandel, C.R. et al. (2008) *Cell Mol Life Sci* 65, 1099-122.
3. He, X. et al. (2003) *Genes Dev* 17, 1030-42.
4. Dominski, Z. and Marzluff, W.F. (2007) *Gene* 396, 373-90.
5. Barnard, D.C. et al. (2004) *Cell* 119, 641-51.
6. Calvo, O. and Manley, J.L. (2003) *Genes Dev* 17, 1321-7.
7. Moore, M.J. and Proudfoot, N.J. (2009) *Cell* 136, 688-700.
8. Keon, B.H. et al. (1996) *J Cell Biol* 134, 1003-18.
9. Chang, H. et al. (2012) *Histochem Cell Biol* 137, 319-27.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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