

#5728 Store at -20C

ELP3 (D5H12) Rabbit mAb


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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	62	Rabbit IgG	#Q9H9T3	55140

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	ELP3 (D5H12) Rabbit mAb recognizes endogenous levels of total ELP3 protein.	
Species predicted to react based on 100% sequence homology:	Hamster, Bovine, Dog, Pig, Horse	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly431 of human ELP3 protein.	
Background	<p>Elongator is a highly conserved transcription elongation factor complex that was first identified in yeast as part of the hyperphosphorylated RNA polymerase II (RNAPII) holoenzyme (1). The Elongator complex consists of 6 subunits, ELP1-6, and has been shown to have acetyltransferase activity (2). The acetylation targets of Elongator include histone H3, which is linked to the transcription elongation function of the complex, and α-tubulin, which is associated with regulation of migration and maturation of projection neurons (3-6).</p> <p>ELP3 is the catalytic acetyltransferase subunit of the Elongator complex (2,3). ELP3 contains an iron-sulfur cluster that can bind S-adenosylmethionine, which is necessary for the structural integrity of the Elongator and has been shown to play an important role in mediating global zygotic DNA demethylation of the paternal genome post-fertilization (7-9).</p>	
Background References	<ol style="list-style-type: none"> Otero, G. et al. (1999) <i>Mol Cell</i> 3, 109-18. Creppe, C. and Buschbeck, M. (2011) <i>J Biomed Biotechnol</i> 2011, 924898. Wittschieben, B.O. et al. (1999) <i>Mol Cell</i> 4, 123-8. Hawkes, N.A. et al. (2002) <i>J Biol Chem</i> 277, 3047-52. Kim, J.H. et al. (2002) <i>Proc Natl Acad Sci USA</i> 99, 1241-6. Creppe, C. et al. (2009) <i>Cell</i> 136, 551-64. Paraskevopoulou, C. et al. (2006) <i>Mol Microbiol</i> 59, 795-806. Greenwood, C. et al. (2009) <i>J Biol Chem</i> 284, 141-9. Okada, Y. et al. (2010) <i>Nature</i> 463, 554-8. 	

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	WB: Western Blotting
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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