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ELL3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18266b

Product Information

Application	WB, E
Primary Accession	Q9HB65
Other Accession	NP_079441.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38229
Calculated MW	45361
Antigen Region	334-360

Additional Information

Gene ID	80237
Other Names	RNA polymerase II elongation factor ELL3, ELL3
Target/Specificity	This ELL3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 334-360 amino acids from the C-terminal region of human ELL3.
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	ELL3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ELL3
Function	Enhancer-binding elongation factor that specifically binds enhancers in embryonic stem cells (ES cells), marks them, and is required for their future activation during stem cell specification. Does not only bind to enhancer regions of active genes, but also marks the enhancers that are in a poised or

inactive state in ES cells and is required for establishing proper RNA polymerase II occupancy at developmentally regulated genes in a cohesin-dependent manner. Probably required for priming developmentally regulated genes for later recruitment of the super elongation complex (SEC), for transcriptional activation during differentiation. Required for recruitment of P-TEFb within SEC during differentiation. Probably preloaded on germ cell chromatin, suggesting that it may prime gene activation by marking enhancers as early as in the germ cells. Promoting epithelial- mesenchymal transition (EMT) (By similarity). Elongation factor component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III (PubMed:22195968).

Cellular Location Nucleus.

Tissue Location Testis specific..

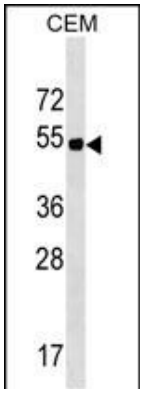
Background

ELL3 is a elongation factor that can increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA.

References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Miller, T., et al. J. Biol. Chem. 275(41):32052-32056(2000)

Images



ELL3 Antibody (C-term) (Cat. #AP18266b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the ELL3 antibody detected the ELL3 protein (arrow).