

ELL3 Antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14848

Product Information

Application	WB
Primary Accession	Q80VR2
Other Accession	NM_145973 , NP_666085
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44762

Additional Information

Gene ID	269344
Alias Symbol	A930015D22Rik
Other Names	RNA polymerase II elongation factor ELL3, ELL3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ELL3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ELL3 Antibody - C-terminal region 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. 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. 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).

Cellular Location

Nucleus.

Tissue Location

Actively expressed in embryonic stem cells (ES cells), while it is weakly expressed in differentiated cells

References

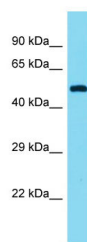
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).

Lin C.,et al.Mol. Cell 37:429-437(2010).

Ahn H.J.,et al.PLoS ONE 7:E40293-E40293(2012).

Lin C.,et al.Cell 152:144-156(2013).

Images



Host: Rabbit

Target Name: Ell3

Sample Tissue: Mouse Kidney lysates

Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.