10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ell3 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14848

Specification

Ell3 Antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q80VR2
Other Accession	NM_145973, NP_666085
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45kDa KDa**

Ell3 Antibody - C-terminal region - 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.

Ell3 Antibody - C-terminal region - 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.

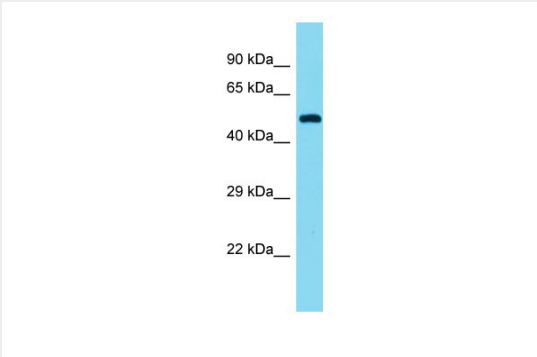
Tissue Location
Actively expressed in embryonic stem cells (ES cells), while it is weakly expressed in differentiated cells

Ell3 Antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Ell3 Antibody - C-terminal region - Images



Host: Rabbit
Target Name: Ell3
Sample Tissue: Mouse Kidney lysates
Antibody Dilution: 1.0µg/ml

Ell3 Antibody - C-terminal region - 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).