

# ELL (H-180): sc-28702

## BACKGROUND

Eukaryotic RNA polymerase II mediates the synthesis of mature and functional messenger RNA. This is a multistep process, called the transcription cycle, that includes five stages: preinitiation, promoter, clearance, elongation and termination. Elongation is thought to be a critical stage for the regulation of gene expression. ELL (11-19 lysine-rich leukemia protein), also designated MEN, functions as an RNA polymerase II elongation factor that increases the rate of transcription by suppressing transient pausing by RNA polymerase II. It is also thought to regulate cellular proliferation. ELL is abundantly expressed in peripheral blood leukocytes, skeletal muscle, placenta and testis, with lower expression in spleen, thymus, heart, brain, lung, kidney, liver and ovary. The gene encoding human ELL, which maps to chromosome 19p13.11, is one of several genes that undergo translocation with the MLL gene on chromosome 11q23 in acute myeloid leukemia. MLL (myeloid/lymphoid leukemia, also designated ALL-1 and HRX) regulates embryonal and hematopoietic development.

## CHROMOSOMAL LOCATION

Genetic locus: ELL (human) mapping to 19p13.11; Ell (mouse) mapping to 8 B3.3.

## SOURCE

ELL (H-180) is a rabbit polyclonal antibody raised against amino acids 341-520 mapping within an internal region of ELL of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

ELL (H-180) is recommended for detection of ELL of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

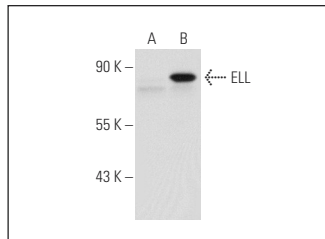
Suitable for use as control antibody for ELL siRNA (h): sc-38041, ELL siRNA (m): sc-38042, ELL shRNA Plasmid (h): sc-38041-SH, ELL shRNA Plasmid (m): sc-38042-SH, ELL shRNA (h) Lentiviral Particles: sc-38041-V and ELL shRNA (m) Lentiviral Particles: sc-38042-V.

Positive Controls: ELL (h): 293T Lysate: sc-115994, mouse testis extract: sc-2405.

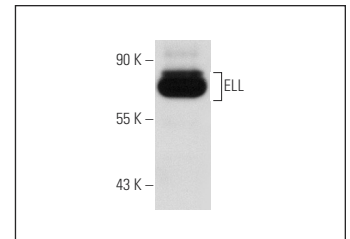
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



ELL (H-180): sc-28702. Western blot analysis of ELL expression in non-transfected: sc-117752 (A) and human ELL transfected: sc-115994 (B) 293T whole cell lysates.



ELL (H-180): sc-28702. Western blot analysis of ELL expression in mouse testis tissue extract.

## SELECT PRODUCT CITATIONS

- Omori, Y., et al. 2014. Glucocorticoids induce cardiac fibrosis via mineralocorticoid receptor in oxidative stress: contribution of elongation factor eleven-nineteen lysine-rich leukemia (ELL). *Yonago Acta Med.* 57: 109-116.
- Albert, T.K., et al. 2016. The establishment of a hyperactive structure allows the tumour suppressor protein p53 to function through P-TEFb during limited CDK9 kinase inhibition. *PLoS ONE* 11: e0146648.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

**MONOS**  
Satisfaction  
Guaranteed

Try **ELL (B-4): sc-398959** or **ELL (2316C1a): sc-81264**, our highly recommended monoclonal alternatives to ELL (H-180).