

ELL2 (M-86): sc-98405

BACKGROUND

ELL2 (RNA polymerase II elongation factor ELL2) is a 640 amino acid nuclear protein that belongs to the ELL/Occludin family. This family is defined by a highly conserved domain of approximately 100 amino residues found within all eukaryotic Occludin proteins and the RNA polymerase II elongation factor ELL. These elongation factors activate elongation by suppressing transient pausing by polymerase at many sites along the DNA and govern its interaction with RNA polymerase II and the ternary elongation complex. ELL2 may also contain a novel type of RNA polymerase II interaction domain that is capable of negatively regulating polymerase activity in promoter-specific transcription initiation *in vitro*.

REFERENCES

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5. Sakurai, K., et al. 2004. Inhibition of the canonical Wnt signaling pathway in cytoplasm: a novel property of the carboxyl-terminal domains of two *Xenopus* ELL genes. *Zool. Sci.* 21: 407-416.
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CHROMOSOMAL LOCATION

Genetic locus: ELL2 (human) mapping to 5q15; ELL2 (mouse) mapping to 13 C1.

SOURCE

ELL2 (M-86) is a rabbit polyclonal antibody raised against amino acids 7-86 mapping at the N-terminus of ELL2 of mouse origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98405 X, 200 µg/0.1 ml.

APPLICATIONS

ELL2 (M-86) is recommended for detection of ELL2 of mouse, rat and, to a lesser extent, 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); non cross-reactive with ELL1.

ELL2 (M-86) is also recommended for detection of ELL2 in additional species, including canine and porcine.

Suitable for use as control antibody for ELL2 siRNA (h): sc-77259, ELL2 siRNA (m): sc-77260, ELL2 shRNA Plasmid (h): sc-77259-SH, ELL2 shRNA Plasmid (m): sc-77260-SH, ELL2 shRNA (h) Lentiviral Particles: sc-77259-V and ELL2 shRNA (m) Lentiviral Particles: sc-77260-V.

ELL2 (M-86) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of ELL2: 72 kDa.

Molecular Weight (observed) of ELL2: 88 kDa.

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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **ELL2 (B-7): sc-515276** or **ELL2 (G-5): sc-376611**, our highly recommended monoclonal alternatives to ELL2 (M-86).