SANTA CRUZ BIOTECHNOLOGY, INC.

ELOF1 (T-13): sc-242616

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. ELOF1 (transcription elongation factor 1 homolog) is a 83 amino acid nuclear protein that is implicated in the maintenance of proper chromatin structure in regions that are being actively transcribed. The gene encoding ELOF1 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELOF1 (human) mapping to 19p13.2; Elof1 (mouse) mapping to 9 A3.

SOURCE

ELOF1 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ELOF1 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.

Blocking peptide available for competition studies, sc-242616 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ELOF1 (T-13) is recommended for detection of ELOF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ELOF1 (T-13) is also recommended for detection of ELOF1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ELOF1 siRNA (h): sc-97538, ELOF1 siRNA (m): sc-144633, ELOF1 shRNA Plasmid (h): sc-97538-SH, ELOF1 shRNA Plasmid (m): sc-144633-SH, ELOF1 shRNA (h) Lentiviral Particles: sc-97538-V and ELOF1 shRNA (m) Lentiviral Particles: sc-144633-V.

Molecular Weight of ELOF1: 9 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

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