

## FIP1L1 (T-18): sc-104243

### BACKGROUND

The component of the cleavage and polyadenylation specificity factor (CPSF) complex plays an important role in the 3'-end formation of pre-mRNA. This complex recognizes the AAUAAA signal sequence and interacts with poly(A) polymerase to process and add to the poly(A) tail. FIP1L1 (FIP1-like 1), also known as Pre-mRNA 3'-end-processing factor FIP1, FIP1 (factor interacting with PAP) and RHE (rearranged in hypereosinophilia), is a 594 amino acid nuclear protein that is a component of the CPSF complex. Within the complex, FIP1L1 contributes to the poly(A) recognition and stimulates poly(A) addition. Fusion of the genes encoding FIP1L1 and PDGFRA due to an interstitial deletion on chromosome 4q12 is the cause of hypereosinophilia syndrome, a rare blood disorder characterized by continuous overproduction of eosinophils in the bone marrow that leads to tissue infiltration and organ damage. There are three isoforms of FIP1L1 that are produced as a result of alternative splicing events.

### REFERENCES

- Preker, P.J., et al. 1995. The FIP1 gene encodes a component of a yeast pre-mRNA polyadenylation factor that directly interacts with poly(A) polymerase. *Cell* 81: 379-389.
- Cools, J., et al. 2003. A tyrosine kinase created by fusion of the PDGFRA and FIP1L1 genes as a therapeutic target of imatinib in idiopathic hypereosinophilic syndrome. *N. Engl. J. Med.* 348: 1201-1214.
- Griffin, J.H., et al. 2003. Discovery of a fusion kinase in EOL-1 cells and idiopathic hypereosinophilic syndrome. *Proc. Natl. Acad. Sci. USA* 100: 7830-7835.

### CHROMOSOMAL LOCATION

Genetic locus: FIP1L1 (human) mapping to 4q12; Fip1l1 (mouse) mapping to 5 C3.3.

### SOURCE

FIP1L1 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FIP1L1 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-104243 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

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

### PROTOCOLS

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

### APPLICATIONS

FIP1L1 (T-18) is recommended for detection of FIP1L1 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).

FIP1L1 (T-18) is also recommended for detection of FIP1L1 in additional species, including equine.

Suitable for use as control antibody for FIP1L1 siRNA (h): sc-89183, FIP1L1 siRNA (m): sc-145185, FIP1L1 shRNA Plasmid (h): sc-89183-SH, FIP1L1 shRNA Plasmid (m): sc-145185-SH, FIP1L1 shRNA (h) Lentiviral Particles: sc-89183-V and FIP1L1 shRNA (m) Lentiviral Particles: sc-145185-V.

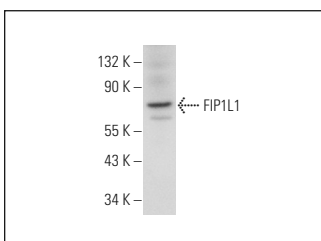
Molecular Weight of FIP1L1: 67 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132.

### 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

### DATA



FIP1L1 (T-18): sc-104243. Western blot analysis of FIP1L1 expression in Jurkat nuclear extract.

### RESEARCH USE

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

**MONOS**  
Satisfaction  
Guaranteed

Try **FIP1L1 (C-10): sc-398392**, our highly recommended monoclonal alternative to FIP1L1 (T-18).