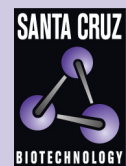


ENL (F-20): sc-32366



The Power to Question

BACKGROUND

The MLL (ALL-1, HRX) gene influences myelomonocytic differentiation, and different chromosomal translocations can result in a range of MLL fusion proteins that mediate leukemia. Frequent translocation partners of MLL include ELL, ENL, AF4, AF6 and AF9. ELL (elongation factor RNA polymerase II, Men) encodes an RNA polymerase II elongation factor that is implicated in t(11;19)(q23;p13.1) translocation in myeloid leukemias. AF9 (MLLT3, YEATS3) fusion with the MLL gene results in a t(9;11)(p22;q23) translocation, which is associated with *de novo* acute myelogenous leukemia (AML). ENL (MLLT1, LTG19, YEATS1, eleven-nineteen leukemia protein) is capable of activating transcription from synthetic reporter genes in both lymphoid and myeloid cells. The t(11;19)(q23;p13) translocation results in the MLL-ENL fusion protein, which is commonly found in infant acute leukemias of both the myeloid and lymphoid lineage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MLLT1 (human) mapping to 19p13.3; Mllt1 (mouse) mapping to 17 D.

SOURCE

ENL (F-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ENL 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-32366 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ENL (F-20) is recommended for detection of ENL 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).

ENL (F-20) is also recommended for detection of ENL in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ENL siRNA (h): sc-44791, ENL siRNA (m): sc-44792, ENL shRNA Plasmid (h): sc-44791-SH, ENL shRNA Plasmid (m): sc-44792-SH, ENL shRNA (h) Lentiviral Particles: sc-44791-V and ENL shRNA (m) Lentiviral Particles: sc-44792-V.

Molecular Weight of ENL: 62 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.

MONOS
Satisfaction
Guaranteed

Try **ENL (D-6): sc-393196**, our highly recommended monoclonal alternative to ENL (F-20).