# MLLT11 (L-13): sc-104998



The Power to Question

# **BACKGROUND**

The gene encoding the mixed-lineage leukemia (MLL) proteins is located on chromosome 11q23. Chromosomal translocations involving band 11q23 result in rogue activator proteins that are associated with approximately 10% of patients with acute lymphoblastic leukemia (ALL) and 5% of patients with acute myeloid leukemia (AML). Most patients affected are less than one year of age. MLLT11, also known as mixed-lineage leukemia translocated to 11 or AF1q, is a 90 amino acid MLL fusion partner. Based on the expression patterns of MLLT11, it is thought that MLLT11 plays a role in leukemogenesis and, specifically, the progression of acute monocytic leukemia (AML). Also, expressed in embryonic brain cortex, MLLT11 is upregulated during neuronal differentiation and is thought to play a role in the development of the central nervous system. Finally, MLLT11 has been shown to be differentially expressed in highly metastatic cells, in comparison with non-metastatic parent cells. Such findings suggest a role of MLLT11 in tumorigenesis.

# **REFERENCES**

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#### 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.

## **CHROMOSOMAL LOCATION**

Genetic locus: MLLT11 (human) mapping to 1q21.2.

# **SOURCE**

MLLT11 (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MLLT11 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-104998 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

MLLT11 (L-13) is recommended for detection of MLLT11 of 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); non cross-reactive with family member MLLT6.

Suitable for use as control antibody for MLLT11 siRNA (h): sc-88150, MLLT11 shRNA Plasmid (h): sc-88150-SH and MLLT11 shRNA (h) Lentiviral Particles: sc-88150-V.

Molecular Weight of MLLT11: 10 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.

# **PROTOCOLS**

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