

MLLT11 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59039

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q13015
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10061
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MLLT11
Epitope Specificity	41-90/90
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MLLT11 family.
DISEASE	Note=A chromosomal aberration involving MLLT11 is found in acute leukemias. Translocation t(1;11)(q21;q23) with MLL.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 1 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.

Additional Information

Gene ID	10962
Other Names	Protein AF1q, MLLT11, AF1Q
Target/Specificity	Highly expressed in thymus and all leukemic cell lines.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MLLT11
Synonyms	AF1Q
Function	Cofactor for the transcription factor TCF7 (PubMed: 26079538). Involved in regulation of lymphoid development by driving multipotent hematopoietic progenitor cells towards a T cell fate (PubMed: 21715312).
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Continuous nuclear export is followed by degradation
Tissue Location	Expressed in myoepithelial cells of normal breast tissue (at protein level) (PubMed:26079538). Highly expressed in thymus (PubMed:7833468). Expressed in colon, small intestine, prostate and ovary. Not detected in peripheral blood lymphocytes and spleen (PubMed:7833468).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.