

## PRODUCT INFORMATION SHEET

### Mouse Monoclonal Antibody to MLL

Format: PURE

RUO

REF IQP-1157P

Volume: 0.1ml



#### Description

**Clone** 10F8D7

**Isotype** Mouse IgG1

**Specificity** MLL

**Alternative names** MLL

**Species** Human

**Immunogen** Purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.

**Mw**

**Format** Ascitic fluid containing 0.03% sodium azide.

**Summary**

Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila). 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. ELL (11-19 lysine-rich leukemia protein, also designated MEN) functions as an RNA polymerase II elongation factor that increases the rate of transcription by suppressing transient pausing by RNA polymerase II. Also, ELL is thought to regulate cellular proliferation. ELL is abundantly expressed in peripheral blood leukocytes, skeletal muscle, placenta and testis, and has lower expression in spleen, thymus, heart, brain, lung, kidney, liver and ovary. The gene encoding human ELL, which maps to chromosome 19p13.1, is one of several genes which undergo translocation with the MLL gene on chromosome 11q23 in acute myeloid leukemia. MLL (myeloid/lymphoid leukemia, also designated ALL-1 and HRX) is a 430 kDa protein that regulates embryonal and hematopoietic development.

**Applications**

Western Blotting: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. ELISA: Propose dilution 1/10000. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Limitations**

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.



### Handling and Storage

Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.03% sodiumazide (NaN<sub>3</sub>) or as ascetic fluid containing 0.03% sodiumazide. Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

### Warranty

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

### Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

### Warning

All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

**References**

- Genet Couns. 2006;17(2):155-9.
- Cancer Genet Cytogenet. 2006 Jul 15;168(2):162-7
- Leukemia. 2007 Feb;21(2):360-2. Epub 2007 Jan 4.

### Explanation of used symbols



- REF Consult instructions for use
- V Catalogue number
- Δ Sufficient for
- ⚠ Caution, consult accompanying document
- ☀ Keep away from (sun)light
- ☣ Biological risks
- R Temperature limitation (°C)
- RUO For Research Use Only
- LOT Batch code
- ⌚ Use by yyyy-mm-dd
- ⚜ Manufacturer
- EC REP Authorized Representative in the European Community
- CE Conformité Européenne (European Conformity)

		Label - tandem	Ex -max (nm)	Em -max (nm)
P	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
C	CyQ	PE-Cy5.18	488, 532	667
A	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



IQ Products BV  
Rozenburglaan 13a  
9727 DL Groningen, The Netherlands

- ☎ +31 (0)50 57 57 000
- 📠 +31 (0)50 57 57 002
- ✉ Technical [marketing@iqproducts.nl](mailto:marketing@iqproducts.nl)
- ✉ Orders [orders@iqproducts.nl](mailto:orders@iqproducts.nl)
- 🌐 [www.iqproducts.nl](http://www.iqproducts.nl)