

## Product datasheet for **AM06209SU-N**

### **KMT2A (3751-3968) Mouse Monoclonal Antibody [Clone ID: 10F8D7]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	10F8D7
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Western Blotting:</b> 1/500-1/2000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/200-1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.
Specificity:	Recognizes Human MLL. Other species not tested.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lysine methyltransferase 2A
Database Link:	<a href="#">Entrez Gene 4297 Human Q03164</a>



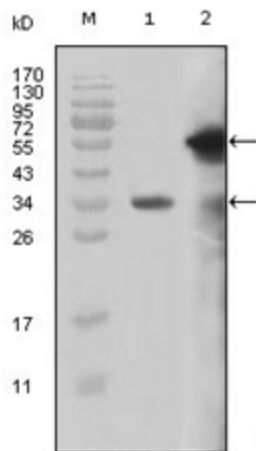
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**Background:**

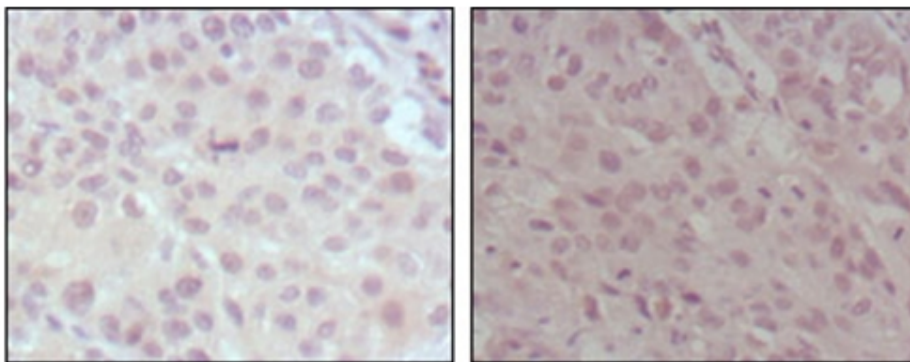
Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, *Drosophila*). Eukaryotic RNA polymerase II mediates the synthesis of mature and functional messenger RNA. This is a multistep process, called the transcription cycle, that includes five stages: preinitiation, promoter, clearance, elongation 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.

**Synonyms:**

ALL1, CXXC7, HTRX, KMT2A, TRX1, ALL-1

**Product images:**


Western blot analysis using anti-MLL Monoclonal Antibody against truncated MLL recombinant protein (Lane 1) and truncated GFP-MLL (aa3714-3969) transfected Cos7 cell lysate (Lane 2).



Immunohistochemical analysis of paraffin-embedded human lung cancer (left) and esophagus cancer (right), showing nuclear weak staining with DAB staining using anti-MLL Monoclonal Antibody.