

**MLF1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6716a****Specification**

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**MLF1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P58340</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30627
Antigen Region	35-62

**MLF1 Antibody (N-term) - Additional Information****Gene ID** 4291**Other Names**

Myeloid leukemia factor 1, Myelodysplasia-myeloid leukemia factor 1, MLF1

**Target/Specificity**

This MLF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-62 amino acids from the N-terminal region of human MLF1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MLF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MLF1 Antibody (N-term) - Protein Information****Name** MLF1

**Function** Involved in lineage commitment of primary hemopoietic progenitors by restricting erythroid formation and enhancing myeloid formation. Interferes with erythropoietin-induced erythroid terminal differentiation by preventing cells from exiting the cell cycle through

suppression of CDKN1B/p27Kip1 levels. Suppresses COP1 activity via CSN3 which activates p53 and induces cell cycle arrest. Binds DNA and affects the expression of a number of genes so may function as a transcription factor in the nucleus.

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q9QWV4}. Nucleus {ECO:0000250|UniProtKB:Q9QWV4}. Cell projection, cilium {ECO:0000250|UniProtKB:Q9QWV4}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q9QWV4}. Note=Shuttles between the cytoplasm and nucleus. {ECO:0000250|UniProtKB:Q9QWV4}

#### Tissue Location

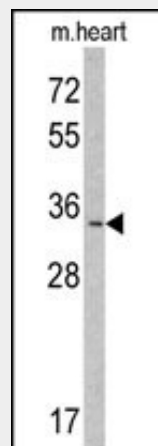
Most abundant in testis, ovary, skeletal muscle, heart, kidney and colon. Low expression in spleen, thymus and peripheral blood leukocytes

### MLF1 Antibody (N-term) - Protocols

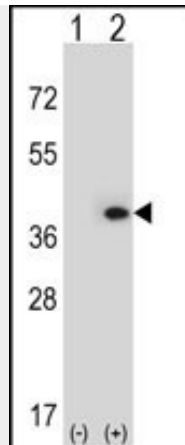
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MLF1 Antibody (N-term) - Images



Western blot analysis of MLF1 Antibody (N-term) (Cat. #AP6716a) in mouse heart tissue lysates (35ug/lane). MLF1 (arrow) was detected using the purified Pab.



Western blot analysis of MLF1 (arrow) using rabbit polyclonal MLF1 Antibody (N-term) (Cat. #AP6716a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the MLF1 gene.

#### **MLF1 Antibody (N-term) - Background**

MLF1 is involved in lineage commitment of primary hemopoietic progenitors by restricting erythroid formation and enhancing myeloid formation. The protein interferes with erythropoietin-induced erythroid terminal differentiation by preventing cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. It suppresses RFW2/COP1 activity via CSN3 which activates p53 and induces cell cycle arrest. It binds DNA and affects the expression of a number of genes so may function as a transcription factor in the nucleus.

#### **MLF1 Antibody (N-term) - References**

Li,Z.F., J. Neurol. Sci. 264 (1-2), 77-86 (2008)  
Yoneda-Kato,N., EMBO J. 24 (9), 1739-1749 (2005)