

# MLF1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6716a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P58340</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB18642
<b>Calculated MW</b>	30627
<b>Antigen Region</b>	35-62

## Additional Information

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<b>Gene ID</b>	4291
<b>Other Names</b>	Myeloid leukemia factor 1, Myelodysplasia-myeloid leukemia factor 1, MLF1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	MLF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MLF1
<b>Function</b>	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

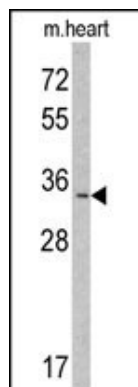
## Background

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.

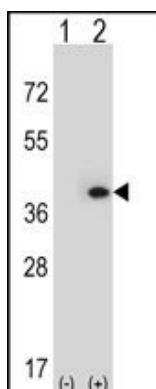
## References

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

## 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.