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MLF1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6716b

Specification

MLF1 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P58340
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**215-244**

MLF1 Antibody (C-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 215-244 amino acids from the C-terminal region of human MLF1.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

MLF1 Antibody (C-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}

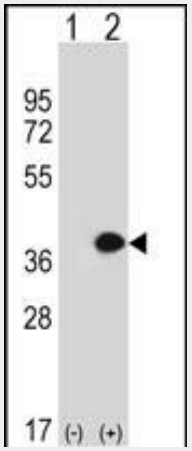
Tissue Location
Most abundant in testis, ovary, skeletal muscle, heart, kidney and colon. Low expression in spleen, thymus and peripheral blood leukocytes

MLF1 Antibody (C-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 Cytomety
- Cell Culture

MLF1 Antibody (C-term) - Images



Western blot analysis of MLF1 (arrow) using rabbit polyclonal MLF1 Antibody (C-term) (Cat. #AP6716b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the MLF1 gene.

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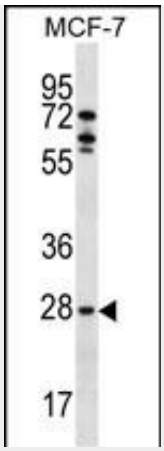
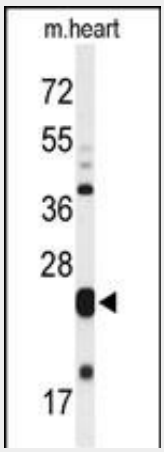


MLF1 Antibody (C-term) (Cat. #AP6716b) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the MLF1 antibody detected the MLF1 protein (arrow).



Western blot analysis of MLF1 Antibody (C-term) (Cat. #AP6716b) in mouse heart tissue lysates (35ug/lane). MLF1 (arrow) was detected using the purified Pab.

MLF1 Antibody (C-term) (Cat. #AP6716b)immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MLF1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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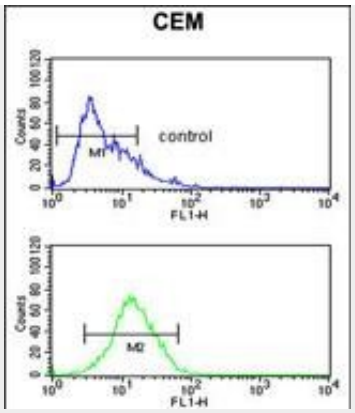

MLF1 Antibody (C-term) (Cat. #AP6716b) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MLF1 Antibody (C-term) - Background

MLF1 is involved in lineage commitment of primary hemopoietic progenitors by restricting erythroid formation and enhancing myeloid formation. The protein interferes with erythopoietin-induced erythroid terminal differentiation by preventing cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. It suppresses RFWD2/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 (C-term) - References

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