10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

(Mouse) Mlf1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20887a

Product Information

Application	WB, E
Primary Accession	Q9QWV4
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51172
Calculated MW	30432

Additional Information

Gene ID	17349
Other Names	Myeloid leukemia factor 1, Hematopoietic lineage switch 7, Myelodysplasia-myeloid leukemia factor 1, Mlf1, Hls7
Target/Specificity	This (Mouse) Mlf1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 91-126 amino acids from the Central region of (Mouse) Mlf1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	(Mouse) Mlf1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Mlf1
Synonyms	Hls7
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. Nucleus. Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body. Note=Shuttles between the cytoplasm and nucleus.
Tissue Location	Highly expressed in skeletal muscle, heart, testis. Also found in lung, but not in spleen, thymus, bone marrow, liver and kidney.

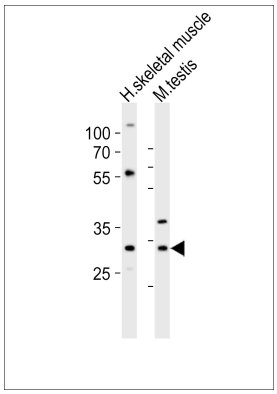
Background

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 RFWD2/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.

References

Hitzler J.K.,et al.Am. J. Pathol. 155:53-59(1999).
Williams J.H.,et al.EMBO J. 18:5559-5566(1999).
Lim R.,et al.J. Biol. Chem. 277:40997-41008(2002).
Winteringham L.N.,et al.Oncogene 23:5105-5109(2004).
Winteringham L.N.,et al.J. Biol. Chem. 281:38791-38800(2006).

Images



Western blot analysis of lysates from human skeletal muscle, mouse testis tissue lysate (from left to right), using Mlf1 Antibody (Center)(Cat. #AP20887a). AP20887a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.