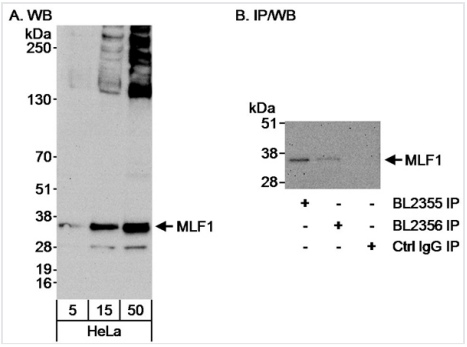
MLF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MLF1, Polyclonal Antibody
Full Product Name	Rabbit anti-MLF1 Antibody, Affinity Purified
Product Gene Name	anti-MLF1 antibody
Product Synonym Names	myelodysplasia-myeloid leukemia factor 1; myeloid leukemia factor 1; testis tissue sperm-binding protein Li 49e; Myeloid leukemia factor 1; myeloid leukemia factor 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	30,627 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (158288953..158324249). Location: 3q25.1
OMIM	601402
3D Structure	ModBase 3D Structure for P58340
Predicted Reactivity	Orangutan
Immunogen	Between 218 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-MLF1 antibody	Primary Antibodies
Applications Tested/Suitable for anti-MLF1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Related Product Information for anti-MLF1 antibody	Myeloid leukemia factor 1 (MLF1) is an oncoprotein linked to myeloid leukemia and functions in hemopoietic lineage commitment. In acute myeloid leukemia, MLF1 has been identified in a chromosomal translocation and fusion with nucleophosmin. MLF1 has been found to shuttle between the cytoplasm and nucleus where it may influence gene expression.
Other Notes	Small volumes of anti-MLF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MLF1 purchase	MBS3901114 is an antibody targeting MLF1. Also known as Rabbit anti-MLF1 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MLF1 antibody
Detection of human MLF1 by western blot and immunoprecipitation. Samples: Whole cell lysate (5, 15 and 50 ug for WB; 1 mg for IP, 1/4 of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-MLF1 antibody BL2356 (Cat. No. MBS3901114) used at 0.1 ug/ml for WB (A and B) and at 3 ug/mg lysate for IP (B). Human MLF1 was also immunoprecipitated using rabbit anti-MLF1 antibody BL2356, which is to an upstream epitope in MLF1. Detection: Chemiluminescence with an exposure times of 30 seconds (A) and 3 minutes (B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLF1. It may not necessarily be applicable to this product.

NCBI GI #	11967975
NCBI GeneID	4291
NCBI Accession #	NP_071888.1
UniProt Primary Accession #	P58340
UniProt Secondary Accession #	Q2TLE3; Q2TLE5; Q8N8F8; Q96MH1; E9PEU9
UniProt Related Accession #	P58340
GenBank Nucleotide #	NM_022443.4
NCBI Official Full Name	myeloid leukemia factor 1 isoform 1
NCBI Official Synonym Full Names	myeloid leukemia factor 1
NCBI Official Symbol	MLF1
UniProt Protein Name	Myeloid leukemia factor 1
UniProt Synonym Protein Names	Myelodysplasia-myeloid leukemia factor 1
Protein Family	Myeloid leukemia factor
UniProt Gene Name	MLF1
UniProt Entry Name	MLF1_HUMAN
NCBI Protein Information	myeloid leukemia factor 1; myelodysplasia-myeloid leukemia factor 1
NCBI Summary for MLF1	This gene encodes an oncoprotein which is thought to play a role in the phenotypic determination of hemopoetic cells. Translocations between this gene and nucleophosmin have been associated with myelodysplastic syndrome and acute myeloid leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2010]

UniProt Comments for MLF1	MLF1: 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. A chromosomal aberration involving MLF1 is a cause of myelodysplastic syndrome (MDS). Translocation t(3;5)(q25.1;q34) with NPM1/NPM. Belongs to the MLF family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 3q25.1 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein domain specific binding; protein binding; DNA binding Biological Process: myeloid progenitor cell differentiation; transcription, DNA-dependent; cell cycle arrest Disease: Leukemia, Acute Myeloid
Research Articles on MLF1	**1.** The subcellular localization of full-length human MLF1 is 14-3-3epsilon-independent.
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