HEXIM1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

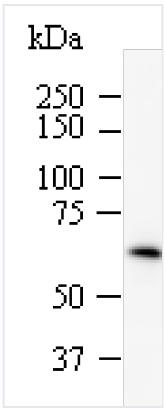
Product Name	HEXIM1, Monoclonal Antibody
Full Product Name	Mouse monoclonal antibody Anti-Human HEXIM1
Product Gene Name	anti-HEXIM1 antibody
Product Synonym Names	Homo sapiens hexamethylene bis-acetamide inducible 1; CLP1; EDG1; HIS1; MAQ1; FLJ13562
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2416C2a
Host	Mouse
Species Reactivity	Human
Concentration	100 ug/ml (1.0 ml) (lot specific)
Molecular Weight	40,623 Da
OMIM	607328
Preparation	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Sterility	Filtered through a 0.22 um membrane.
Applications Tested/Suitable for anti-HEXIM1 antibody	Dot Blot (DB), Immunocytochemistry (ICC), Western Blot (WB)
Related Product Information for anti-HEXIM1 antibody	MBS120354 is an antibody targeting HEXIM1. Also known as Mouse monoclonal antibody Anti-Human HEXIM1. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-HEXIM1 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.



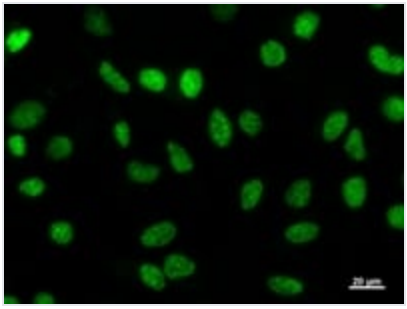
Quality Control of anti-HEXIM1 antibody
Western blot analysis of immunized recombinant protein, using anti-HEXIM1 monoclonal antibody.



Quality Control #2 of anti-HEXIM1 antibody
Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.



Western Blot (WB) of anti-HEXIM1 antibody
Detection of human HEXIM1 by Western blot.Samples: Whole cell lysate (25 ug) from HeLa cells. [Lot No. 2416C2a-1]Predicted molecular weight: 40 kDa



Immunocytochemistry (ICC) of anti-HEXIM1 antibody
Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-HEXIM1 mAb. [Lot No. 2416C2a-1]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HEXIM1. It may not necessarily be applicable to this product.

NCBI GI #	70167225
NCBI GeneID	10614
NCBI Accession #	NP_006451.1
UniProt Secondary Accession #	B2R8Y5
UniProt Related Accession #	O94992
GenBank Nucleotide #	NM_006460
NCBI Official Full Name	Homo sapiens hexamethylene bis-acetamide inducible 1 (HEXIM1), mRNA
NCBI Official Synonym Full Names	hexamethylene bis-acetamide inducible 1
NCBI Official Symbol	HEXIM1
NCBI Official Synonym Symbols	CLP1; EDG1; HIS1; MAQ1
UniProt Protein Name	Protein HEXIM1
UniProt Synonym Protein Names	Cardiac lineage protein 1; Estrogen down-regulated gene 1 protein; Hexamethylene bis-acetamide-inducible protein 1; Menage a quatre protein 1
Protein Family	Protein
UniProt Gene Name	HEXIM1
UniProt Entry Name	HEXI1_HUMAN
NCBI Protein Information	protein HEXIM1; HMBA-inducible; cardiac lineage protein 1; estrogen down-regulated gene 1 protein; hexamethylene bis-acetamide-inducible protein 1; hexamethylene bisacetamide-inducible protein; hexamethylene-bis-acetamide-inducible transcript 1; hexamthylene bis-acetamide inducible 1; menage a quatre 1; menage a quatre protein 1
NCBI Summary for HEXIM1	Expression of this gene is induced by hexamethylene-bis-acetamide in vascular smooth muscle cells. This gene has no introns. [provided by RefSeq, Jul 2008]

UniProt Comments for HEXIM1	HEXIM1: Transcriptional regulator which functions as a general RNA polymerase II transcription inhibitor. In cooperation with 7SK snRNA sequesters P-TEFb in a large inactive 7SK snRNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation. May also regulate NF-kappa-B, ESR1, NR3C1 and CIITA-dependent transcriptional activity. Homooligomer and heterooligomer with HEXIM2; probably dimeric. Component of the 7SK snRNP complex at least composed of P-TEFb (composed of CDK9 and CCNT1/cyclin-T1), HEXIM1, HEXIM2, BCDIN3, SART3 proteins and 7SK and U6 snRNAs. Interacts with the N-CoR complex through NCOR1. Interacts with ESR1 and NR3C1. May interact with NF-kappa-B through RELA. Up-regulated by HMBA (hexamethylene bisacetamide). Down-regulated by estrogen. Ubiquitously expressed with higher expression in placenta. HEXIM1 and HEXIM2 are differentially expressed. Expressed in endocrine tissues. Belongs to the HEXIM family. Protein type: Transcription factor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 17q21.31 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; snRNA binding Biological Process: transcription, DNA-dependent; heart development; negative regulation of cyclin-dependent protein kinase activity; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent
Research Articles on HEXIM1	**1.** This study demonstrates a novel role of HEXIM1 in regulating human pluripotent stem cells fate through a P-TEFb-independent pathway.
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