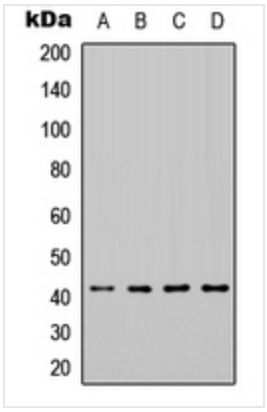
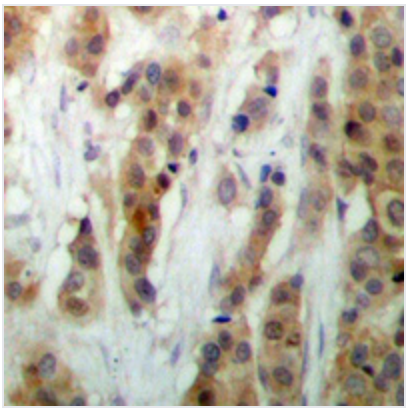
HEXIM1 Antibody – Polyclonal

PRODUCT OVERVIEW

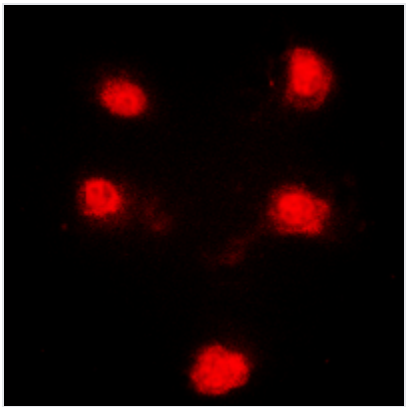
Product Name	HEXIM1, Polyclonal Antibody
Full Product Name	Anti-HEXIM1 Antibody
Product Gene Name	anti-HEXIM1 antibody
Product Synonym Names	CLP1; EDG1; HIS1; MAQ1; Protein HEXIM1; Cardiac lineage protein 1; Estrogen down-regulated gene 1 protein; Hexamethylene bis-acetamide-inducible protein 1; Menage a quatre protein 1
Clonality	Polyclonal
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of HEXIM1 protein.
Preparation and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	HEXIM1 peptide (MBS8243682) is used for blocking the activity of HEXIM1 antibody (MBS8243164)
Molecular Weight	40,623 Da
OMIM	607328
3D Structure	ModBase 3D Structure for O94992
Source	Rabbit
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HEXIM1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-HEXIM1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-HEXIM1 antibody	Western Blot: (1/500 - 1/1000) Immunohistochemistry: (1/100 - 1/200) Immunofluorescence/Immunocytochemistry: (1/100 - 1/500)
Related Product Information for anti-HEXIM1 antibody	MBS8243164 is an antibody targeting HEXIM1. Reactive in Human, Mouse, Rat, Monkey. Rabbit polyclonal antibody to HEXIM1
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.



Western Blot (WB) of anti-HEXIM1 antibody
Western blot analysis of HEXIM1 expression in A431 (A), Jurkat (B), NIH3T3 (C), rat heart (D) whole cell lysates.



Immunohistochemistry (IHC) of anti-HEXIM1 antibody
Immunohistochemical analysis of HEXIM1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-HEXIM1 antibody
Immunofluorescent analysis of HEXIM1 staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

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

NCBI GI #	74735573
NCBI GeneID	10614
NCBI Accession #	O94992.1
UniProt Primary Accession #	O94992
UniProt Secondary Accession #	B2R8Y5
UniProt Related Accession #	O94992
NCBI Official Full Name	Protein HEXIM1
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 Synonym Gene Names	CLP1; EDG1; HIS1; MAQ1
UniProt Entry Name	HEXI1_HUMAN
NCBI Protein Information	protein HEXIM1
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: cytoplasm; nucleoplasm; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; snRNA binding Biological Process: 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; transcription, DNA-dependent
Research Articles on HEXIM1	**1.** PPM1G phosphatase directly binds 7SK RNA and the kinase inhibitor Hexim1 once P-TEFb has been released from the 7SK snRNP.
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