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HEXIM1 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13992a

Specification

HEXIM1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession O94992

HEXIM1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 10614

Other Names
Protein HEXIM1, Cardiac lineage protein 1, Estrogen down-regulated gene 1 protein, Hexamethylene bis-acetamide-inducible protein 1, Menage a quatre protein 1, HEXIM1, CLP1, EDG1, HIS1, MAQ1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13992a was selected from the N-term region of HEXIM1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HEXIM1 Antibody (N-term) Blocking peptide - Protein Information

Name HEXIM1

Synonyms CLP1, EDG1, HIS1, MAQ1

Function
Transcriptional regulator which functions as a general RNA polymerase II transcription inhibitor (PubMed:14580347, PubMed:15713661, PubMed:15201869). Core component of the 7SK RNP complex: in cooperation with 7SK snRNA sequesters P-TEFb in a large inactive 7SK snRNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (PubMed:12832472, PubMed:14580347, PubMed:<a href="http://www.uniprot.org/citations/15713661"

target="_blank">15713661, PubMed:15201869). May also regulate NF-kappa-B, ESR1, NR3C1 and CIITA-dependent transcriptional activity (PubMed:15940264, PubMed:15941832, PubMed:17088550). Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway (PubMed:28712728).

Cellular Location
Nucleus. Cytoplasm. Note=Binds alpha-importin and is mostly nuclear (PubMed:16362050)

Tissue Location
Ubiquitously expressed with higher expression in placenta. HEXIM1 and HEXIM2 are differentially expressed. Expressed in endocrine tissues.

HEXIM1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

HEXIM1 Antibody (N-term) Blocking peptide - Images

HEXIM1 Antibody (N-term) Blocking peptide - Background

Expression of this gene is induced byhexamethylene-bis-acetamide in vascular smooth muscle cells. Thisgene has no introns.

HEXIM1 Antibody (N-term) Blocking peptide - References

Dow, E.C., et al. J. Cell. Physiol. 224(1):84-93(2010)Ogba, N., et al. Oncogene 29(25):3639-3649(2010)Schonichen, A., et al. Biochemistry 49(14):3083-3091(2010)Czudnochowski, N., et al. J. Mol. Biol. 395(1):28-41(2010)Krueger, B.J., et al. PLoS ONE 5 (8), E12335 (2010) :