

Goat Anti-HEXIM1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1524a**Specification**

Goat Anti-HEXIM1 Antibody - Product Information

Application	WB, E
Primary Accession	O94992
Other Accession	NP_006451 , 10614 , 192231 (mouse)
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	40623

Goat Anti-HEXIM1 Antibody - 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

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-HEXIM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HEXIM1 Antibody - 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:15201869, PubMed:15713661). 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:15201869, PubMed:15713661). 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

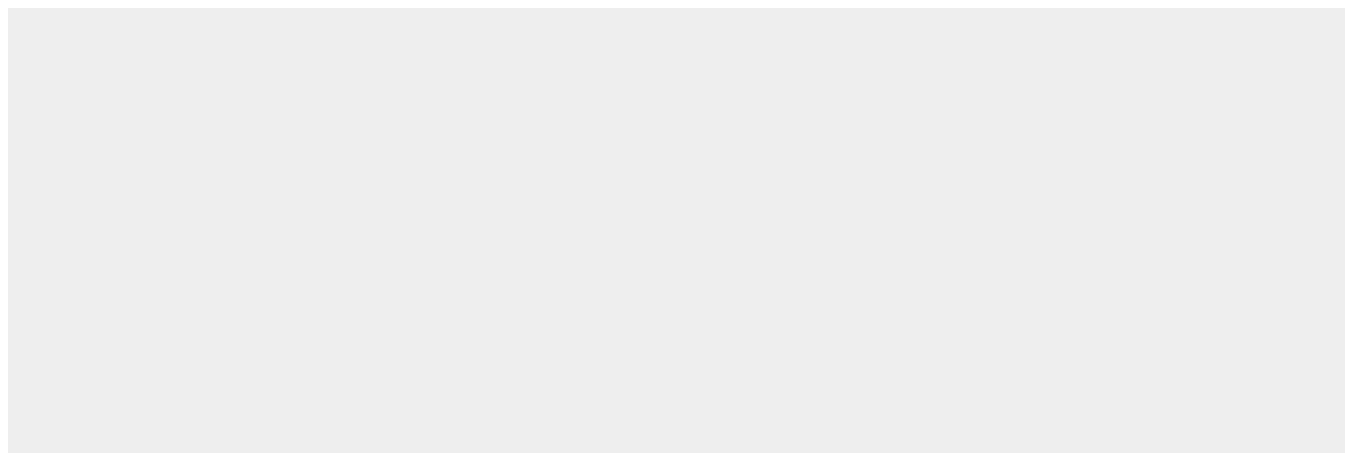
Ubiquitously expressed with higher expression in placenta. HEXIM1 and HEXIM2 are differentially expressed. Expressed in endocrine tissues.

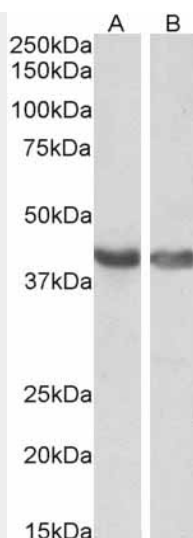
Goat Anti-HEXIM1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-HEXIM1 Antibody - Images





AF1524a (0.1 µg/ml) staining of Human (A) and Mouse (B) Heart lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-HEXIM1 Antibody - Background

Expression of this gene is induced by hexamethylene-bis-acetamide in vascular smooth muscle cells. This gene has no introns.

Goat Anti-HEXIM1 Antibody - References

HEXIM1 modulates vascular endothelial growth factor expression and function in breast epithelial cells and mammary gland. Ogburn N, et al. *Oncogene*, 2010 Jun 24. PMID 20453883.
A flexible bipartite coiled coil structure is required for the interaction of Hexim1 with the P-TEFb subunit cyclin T1. Schmitt A, et al. *Biochemistry*, 2010 Apr 13. PMID 20210365.
T-loop phosphorylated Cdk9 localizes to nuclear speckle domains which may serve as sites of active P-TEFb function and exchange between the Brd4 and 7SK/HEXIM1 regulatory complexes. Dow EC, et al. *J Cell Physiol*, 2010 Jul. PMID 20201073.
Specificity of Hexim1 and Hexim2 complex formation with cyclin T1/T2, importin alpha and 7SK snRNA. Czudnochowski N, et al. *J Mol Biol*, 2010 Jan 8. PMID 19883659.
Ubiquitination of HEXIM1 by HDM2. Lau J, et al. *Cell Cycle*, 2009 Jul 15. PMID 19617712.