



Rabbit Anti-HEXIM1 antibody

SL9460R

Product Name:	HEXIM1
Chinese Name:	雌激素下调基因1蛋白抗体
Alias:	Cardiac lineage protein 1; CLP 1; CLP1; EDG 1; EDG1; Estrogen down-regulated gene 1 protein; Hexamethylene bis acetamide inducible 1; Hexamethylene bis acetamide inducible protein; Hexamethylene bis acetamide inducible transcript 1; Hexamethylene bis-acetamide-inducible protein 1; HEXI1_HUMAN; HEXIM 1; Hexim1; HEXIM1 protein; HIS 1; HIS1; HMBA inducible; MAQ 1; MAQ1; Menage a quatre 1; Menage a quatre protein 1; Protein HEXIM1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HEXIM1/EDG1:101-200/359
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Hexamethylene bis-acetamide inducible 1 (HEXIM1) and Hexamethylene bis-acetamide inducible 2 (HEXIM2) comprise a family of proteins which inhibit positive transcription

elongation factor b (P-TEFb) through association with 7SK. P-TEFb is composed of a catalytic subunit, Cdk9, and either Cyclin T1 or T2 as a regulatory subunit. This complex regulates eukaryotic gene expression at the level of elongation. The C-terminal domains of HEXIM proteins interact directly with each other. Via these domains, HEXIM1 and HEXIM2 form stable homo- and hetero-oligomers, which may aid in the formation of the 7SK small nuclear ribonucleic acid particle. Despite their similar functions, HEXIM1 and HEXIM2 exhibit distinct expression patterns in various established cell lines and human tissues.

Function:

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.

Subunit:

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.

Subcellular Location:

Nucleus. Cytoplasm. Binds alpha-importin and is mostly nuclear.

Tissue Specificity:

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

Similarity:

Belongs to the HEXIM family.

SWISS:

O94992

Gene ID:

10614

Database links:

[Entrez Gene: 10614](#)Human

[Entrez Gene: 192231](#)Mouse

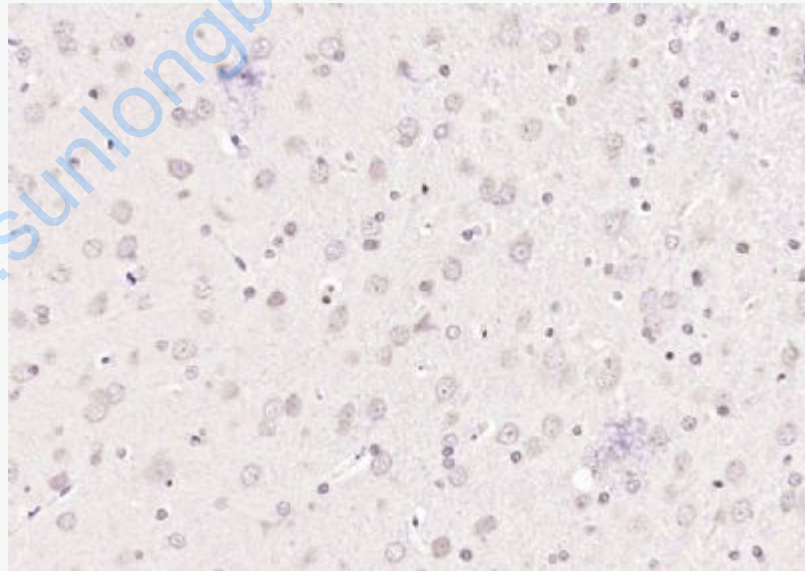
[Entrez Gene: 498008](#)Rat

[Omim: 607328](#)Human
[SwissProt: O94992](#)Human
[SwissProt: Q8R409](#)Mouse
[SwissProt: Q5M9G1](#)Rat
[Unigene: 15299](#)Human
[Unigene: 586945](#)Human
[Unigene: 634944](#)Human
[Unigene: 741758](#)Human
[Unigene: 8763](#)Mouse
[Unigene: 113703](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HEXIM1) Polyclonal Antibody, Unconjugated

	<p>(SL9460R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.</p>
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