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HEXIM1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50038

Product Information

Application	WB, IF
Primary Accession	O94992
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	40623

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 IF~~1:100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

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.

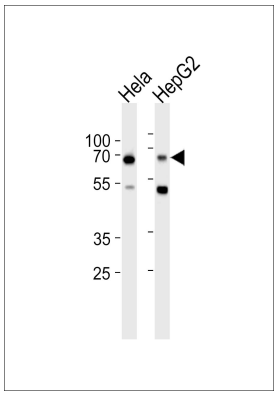
Background

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.

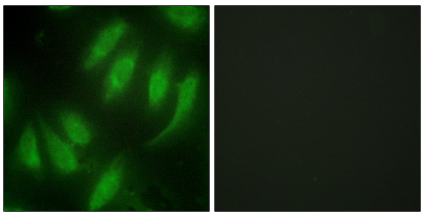
References

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Wittmann B.M.,et al.Cancer Res. 63:5151-5158(2003).
Ouchida R.,et al.Genes Cells 8:95-107(2003).
Yik J.H.N.,et al.Mol. Cell 12:971-982(2003).

Images



Western blot analysis of lysates from Hela,HepG2 cell line (from left to right),using HEXIM1 Antibody(C10210). C10210 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Immunofluorescence analysis of HeLa cells, using HES7 antibody.

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