

For Research Use Only

MGEA5 Recombinant antibody

Catalog Number: 84722-4-RR



Basic Information

Catalog Number: 84722-4-RR	GenBank Accession Number: BC039583	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10724	CloneNo.: 242263A6
Source: Rabbit	UNIPROT ID: O60502	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:125-1:500 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: meningioma expressed antigen 5 (hyaluronidase)	
Immunogen Catalog Number: AG6405	Calculated MW: 103 kDa	
	Observed MW: 130-140 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, JAR cells

IHC : human rectal cancer tissue,

IF/ICC : HepG2 cells,

Background Information

Human meningioma-expressed antigen 5 (MGEA5) has two putative domains including protein O-GlcNAcase domain and histone acetyltransferase domain, therefore it is often called bifunctional protein NCOAT. Three isoforms of MEGE5 are produced by alternative splicing. MGEA5 was found to be regulated to reduce the state of glycosylation of transcriptional activators while increasing the acetylation of histones to allow for the concerted activation of eukaryotic gene transcription, for instance, acetylation of Lys8 of histone H4 and Lys 14 of histone H3 are resulted from acetyltransferase activity. In addition, single nucleotide polymorphism in MGE5A is associated with type 2 diabetes in Mexican Americans. Two bands at 130kDa and 75 kDa could be detected using the present rabbit polyclonal antibody 14711-1-AP, which is consistent with results in a related reference (PubMed:11341771).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

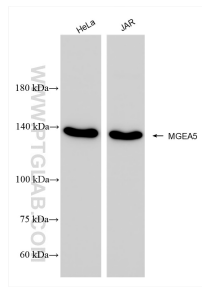
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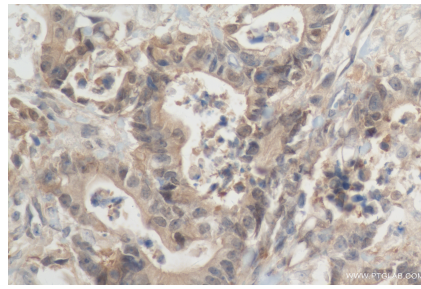
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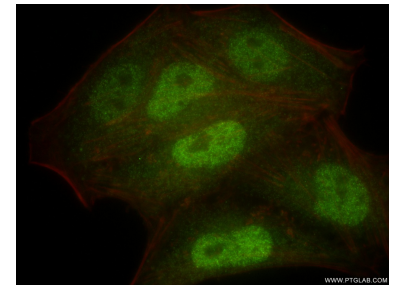
Selected Validation Data



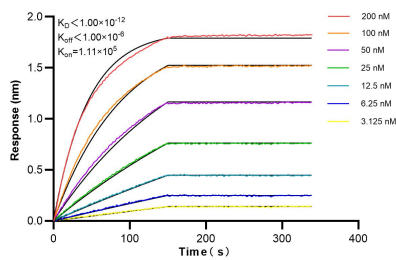
Various lysates were subjected to SDS PAGE followed by western blot with 84722-4-RR (MGEA5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 84722-4-RR (MGEA5 antibody) at dilution of 1:250 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Hep2 cells using MGEA5 antibody (84722-4-RR, Clone: 242263A6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84722-4-RR against Human MGEA5 were performed. The affinity constant is below 1 pM.