

For Research Use Only

MGEA5 Polyclonal antibody

Catalog Number: 14711-1-AP

Featured Product

65 Publications



Basic Information

Catalog Number: 14711-1-AP	GenBank Accession Number: BC039583	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 850 µg/ml by Nanodrop;	GeneID (NCBI): 10724	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: meningioma expressed antigen 5 (hyaluronidase)	
Isotype: IgG	Calculated MW: 103 kDa	
Immunogen Catalog Number: AG6405	Observed MW: 130 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls: WB : SMMC-7721 cells, BxPC-3 cells, HepG2 cells IP : HepG2 cells, IHC : human pancreas tissue, human meningioma tissue IF : HepG2 cells,
Cited Applications: ChIP, CoIP, IF, IHC, RIP, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, rat, mouse, zebrafish, pig, Drosophila	

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

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 MGEA5 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 MGEA5 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Tanjing Song	34551297	Cell Rep	WB
Xiao Han	31545463	Oncol Rep	
Alexis K Nagel	25187572	Mol Cell Proteomics	WB

Storage

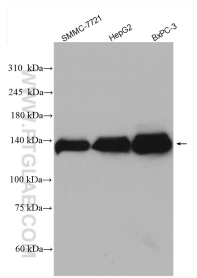
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

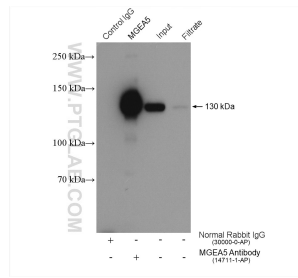
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

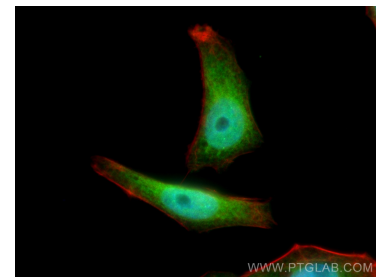
Selected Validation Data



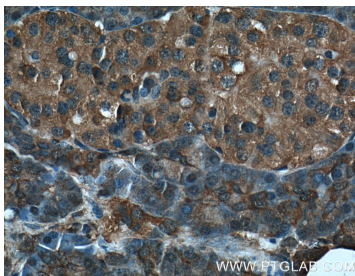
Various lysates were subjected to SDS PAGE followed by western blot with 14711-1-AP (MGEA5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



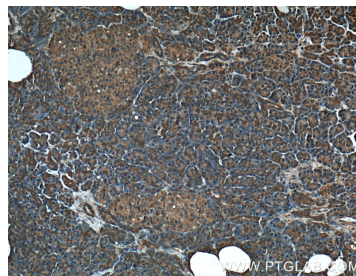
IP result of anti-MGEA5(IP:14711-1-AP, 4ug; Detection:14711-1-AP 1:2000) with HepG2 cells lysate 1880 ug.



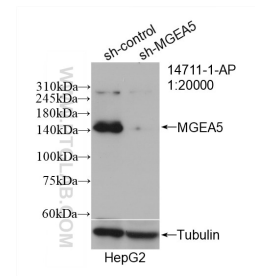
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MGEA5 antibody (14711-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



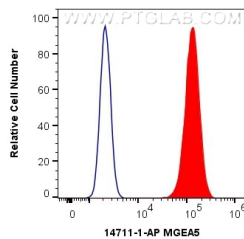
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14711-1-AP (MGEA5 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14711-1-AP (MGEA5 Antibody) at dilution of 1:200 (under 40x lens).



WB result of MGEA5 antibody (14711-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MGEA5 transfected HepG2 cells.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human MGEA5 (14711-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).