

For Research Use Only

# MGEA5 Polyclonal antibody

Catalog Number: 14711-1-AP

Featured Product

65 Publications



## Basic Information

**Catalog Number:**

14711-1-AP

**Size:**

850 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6405

**GenBank Accession Number:**

BC039583

**GeneID (NCBI):**

10724

**UNIPROT ID:**

O60502

**Full Name:**

meningioma expressed antigen 5 (hyaluronidase)

**Calculated MW:**

103 kDa

**Observed MW:**

130 kDa

**Purification Method:**

Antigen affinity purification

**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

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, RIP, IHC, CoIP, ChIP

**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**

**Positive Controls:**

**WB:** SMMC-7721 cells, BxPC-3 cells, HepG2 cells

**IP:** HepG2 cells,

**IHC:** human pancreas tissue, human meningioma tissue

**IF:** 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 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

For technical support and original validation data for this product please contact:

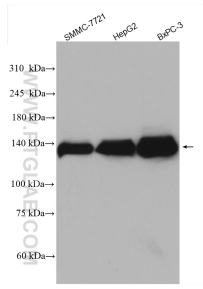
T: 4006900926

E: Proteintech-CN@ptglab.com

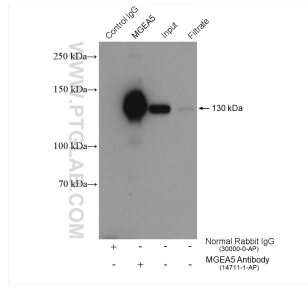
W: ptgcn.com

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

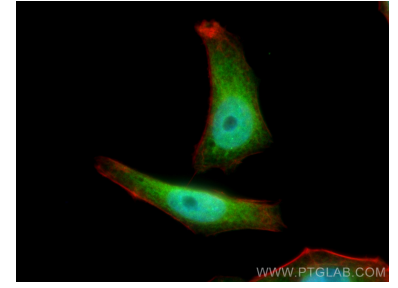
## Selected Validation Data



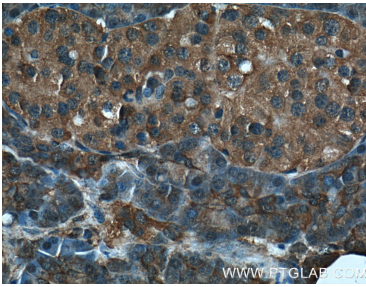
Various lysates were subjected to SDS PAGE followed by western blot with 14711-1-AP (MGEA5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



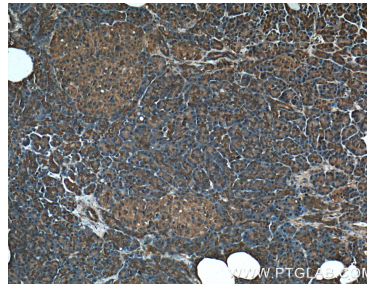
IP result of anti-MGEA5 (IP:14711-1-AP, 4ug; Detection:14711-1-AP 1:2000) with HepG2 cells lysate 1880 ug.



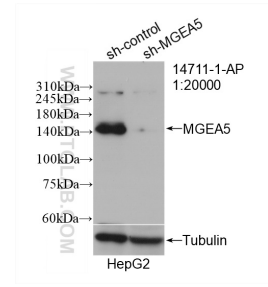
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MGEA5 antibody (14711-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



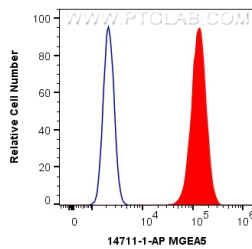
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 14711-1-AP (MGEA5 Antibody) at dilution of 1:200 (under 10x lens).



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.



1X10<sup>6</sup> 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).