

## MGEA5 Monoclonal antibody

Catalog Number: 66033-1-Ig

1 Publications

## Basic Information

<b>Catalog Number:</b> 66033-1-Ig	<b>GenBank Accession Number:</b> BC039583	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 840 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10724	<b>CloneNo.:</b> 3B9H7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O60502	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200 IF/ICC 1:20-1:200
<b>Isotype:</b> IgG1	<b>Full Name:</b> meningioma expressed antigen 5 (hyaluronidase)	
<b>Immunogen Catalog Number:</b> AG6905	<b>Calculated MW:</b> 103 kDa	
	<b>Observed MW:</b> 75 kDa, 130 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> Human brain tissue, MCF7 cells
<b>Species Specificity:</b> human	<b>IHC :</b> human meningioma tissue, human gliomas tissue
<b>Cited Species:</b> mouse	<b>IF/ICC :</b> HepG2 cells, Hela cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 mouse monoclonal antibody 66033-1-Ig, which is consistent with results in a related reference (PubMed:11341771).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hossein Ardehali	36747777	Res Sq	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.

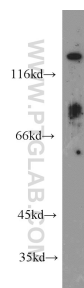
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

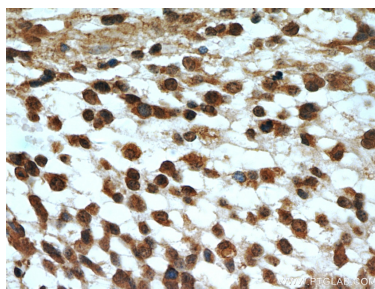
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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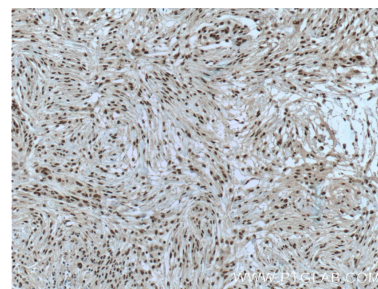
## Selected Validation Data



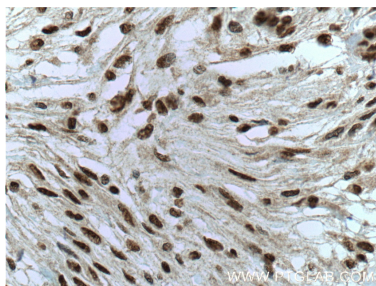
Human brain lysate were subjected to SDS PAGE followed by western blot with 66033-1-Ig (MGEA5 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



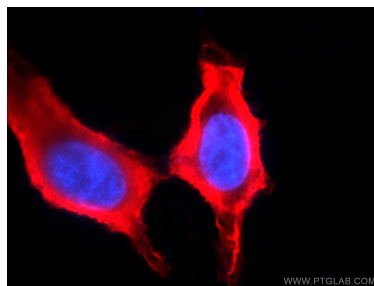
Immunohistochemical analysis of paraffin-embedded human gliomas using 66033-1-Ig(MGEA5 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human meningioma tissue slide using 66033-1-Ig (MGEA5 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunohistochemical analysis of paraffin-embedded human meningioma tissue slide using 66033-1-Ig (MGEA5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunofluorescent analysis of HepG2 cells using 66033-1-Ig (MGEA5 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Mouse IgG.