

For Research Use Only

MGEA5 Monoclonal antibody

Catalog Number: 66033-1-Ig **1 Publications**



Basic Information

Catalog Number: 66033-1-Ig	GenBank Accession Number: BC039583	Purification Method: Protein G purification
Size: 1200 µg/ml	GeneID (NCBI): 10724	CloneNo.: 3B9H7
Source: Mouse	UNIPROT ID: O60502	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:20-1:200
Isotype: IgG1	Full Name: meningioma expressed antigen 5 (hyaluronidase)	
Immunogen Catalog Number: AG6905	Calculated MW: 103 kDa	
	Observed MW: 75 kDa, 130 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : Human brain tissue, MCF7 cells
Species Specificity: human	IHC : human meningioma tissue, human gliomas tissue
Cited Species: mouse	IF : HepG2 cells, Hela cells

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 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 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

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

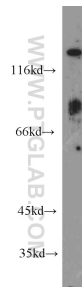
T: 4006900926

E: Proteintech-CN@ptglab.com

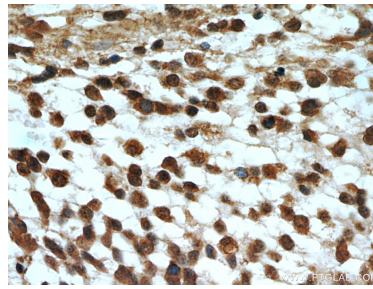
W: ptgcn.com

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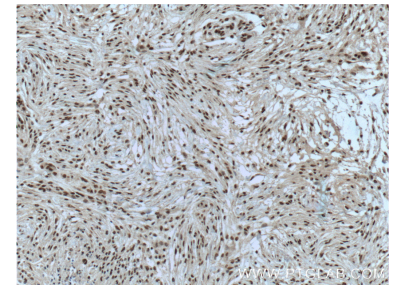
Selected Validation Data



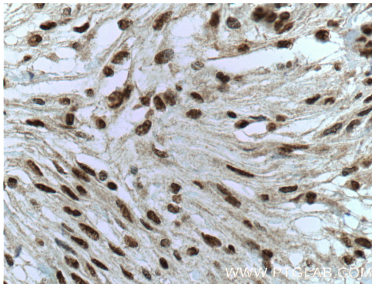
Human brain lysate were subjected to SDS PAGE followed by western blot with 66033-1-Ig (MGEA5 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



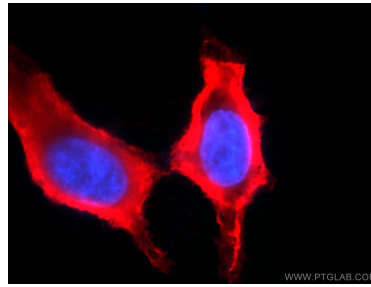
Immunohistochemical analysis of paraffin-embedded human gliomas using 66033-1-Ig(MGEA5 antibody) at dilution of 1:50 (under 40x lens).



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.