



Rabbit Anti-MGEA5 antibody

SL6829R

Product Name:	MGEA5
Chinese Name:	组蛋白乙酰转移酶抗体(脑膜瘤表达抗原5)
Alias:	Bifunctional protein NCOAT; Glycoside hydrolase O-GlcNAcase; HAT; HEXC; Hexosaminidase C; Histone acetyltransferase; KIAA0679; MEA5; Meningioma expressed antigen 5; Meningioma-expressed antigen 5; MGEA 5; Mgea5; N-acetyl-beta-D-glucosaminidase; N-acetyl-beta-glucosaminidase; NCOAT; NCOAT_HUMAN; Nuclear cytoplasmic O GlcNAcase and acetyltransferase; Nuclear cytoplasmic O-GlcNAcase and acetyltransferase; O-GlcNAcase; OGA; NCOAT HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	103kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MGEA5:756-850/916
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The dynamic modification of cytoplasmic and nuclear proteins by O-linked N-acetylglucosamine (O-GlcNAc) addition and removal on serine and threonine residues

is catalyzed by OGT (MIM 300255), which adds O-GlcNAc, and MGEA5, a glycosidase that removes O-GlcNAc modifications (Gao et al., 2001 [PubMed 11148210]).[supplied by OMIM, Mar 2008].

Function:

Cleaves GlcNAc but not GalNAc from glycopeptides. Can use p-nitrophenyl-beta-GlcNAc as substrate but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc. Possesses hyaluronidase activity. Acetylates 'Lys-8' of histone H4 and 'Lys-14' of histone H3 (By similarity).

Subunit:

Monomer. Binds both acetylated and unacetylated histone H4 tail but acetylation on 'Lys-8' of histone H4 abolishes binding (By similarity).

Subcellular Location:

Isoform 3: Nucleus.

Isoform 1: Cytoplasm.

Tissue Specificity:

Ubiquitous. Shows highest expression in the brain, placenta and pancreas. [PTM]
Proteolytically cleaved by caspase-3.

SWISS:

O60502

Gene ID:

10724

Database links:

[Entrez Gene: 10724](#)Human

[Entrez Gene: 76055](#)Mouse

[Omim: 604039](#)Human

[SwissProt: O60502](#)Human

[SwissProt: Q9EQQ9](#)Mouse

[Unigene: 500842](#)Human

[Unigene: 122725](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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