

## ARG41162 anti-MGEA5 / OGA antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes MGEA5 / OGA
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MGEA5 / OGA
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 380-580 of Human MGEA5 (NP_001135906.1).
Conjugation	Un-conjugated
Alternate Names	Nuclear cytoplasmic O-GlcNAcase and acetyltransferase; N-acetyl-beta-D-glucosaminidase; MEA5; NCOAT; EC 3.2.1.-; Meningioma-expressed antigen 5; Beta-N-acetylhexosaminidase; Beta-hexosaminidase; EC 3.2.1.169; Protein O-GlcNAcase; Beta-N-acetylglucosaminidase; OGA; N-acetyl-beta-glucosaminidase

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:200 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse brain	
Observed Size	~120-130 kda	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol	MGEA5
Gene Full Name	meningioma expressed antigen 5 (hyaluronidase)
Background	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	<p>Isoform 1: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro). Does not bind acetyl-CoA and does not have histone acetyltransferase activity.</p> <p>Isoform 3: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc as substrate but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro), but has about six times lower specific activity than isoform 1. [UniProt]</p>
Calculated Mw	103 kDa
PTM	Proteolytically cleaved by caspase-3 during apoptosis. The fragments interact with each other; cleavage does not decrease enzyme activity. [UniProt]
Cellular Localization	Isoform 3: Nucleus. Isoform 1: Cytoplasm. [UniProt]

Images

