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KD-Validated Anti-MGEA5 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1082

Product Information

Application	WB, FC, ICC
Primary Accession	O60502
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6120
Calculated MW	102915
Gene Name	OGA
Aliases	OGA; O-GlcNAcase; NCOAT; MEA5; Nuclear Cytoplasmic O-GlcNAcase And Acetyltransferase; MGEA5; Meningioma Expressed Antigen 5 (Hyaluronidase); N-Acetyl-Beta-D-Glucosaminidase; Meningioma-Expressed Antigen 5; N-Acetyl-Beta-Glucosaminidase; Beta-N-Acetylglucosaminidase; Beta-N-Acetylhexosaminidase; Protein O-GlcNAcase; Beta-Hexosaminidase; Hyaluronidase In Meningioma; Bifunctional Protein NCOAT; EC 3.2.1.169; KIAA0679; HEXC
Immunogen	A synthesized peptide derived from human MGEA5

Additional Information

Gene ID	10724
Other Names	Protein O-GlcNAcase {ECO:0000303|PubMed:11148210, ECO:0000303|PubMed:11788610, ECO:0000305}, OGA, 3.2.1.169, Beta-N-acetylglucosaminidase, Beta-N-acetylhexosaminidase, Beta-hexosaminidase, Meningioma-expressed antigen 5, N-acetyl-beta-D-glucosaminidase, N-acetyl-beta-glucosaminidase, Nuclear cytoplasmic O-GlcNAcase and acetyltransferase, NCOAT, OGA {ECO:0000303|PubMed:20863279, ECO:0000312|HGNC:HGNC:7056}

Protein Information

Name	OGA {ECO:0000303|PubMed:20863279, ECO:0000312|HGNC:HGNC:7056}
Function	[Isoform 1]: Cleaves GlcNAc but not GalNAc from O- glycosylated proteins (PubMed:11148210, PubMed:11788610, PubMed:20673219, PubMed:22365600, PubMed:24088714, PubMed:28939839, PubMed:37962578). Deglycosylates a large and diverse number of proteins, such as CRYAB, ELK1, GSDMD, LMNB1 and TAB1 (PubMed:28939839, PubMed:37962578). 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) (PubMed:20673219). Does not bind acetyl-CoA and does not have histone acetyltransferase activity

(PubMed:24088714).

Cellular Location	[Isoform 3]: Nucleus
Tissue Location	Ubiquitous. Shows highest expression in the brain, placenta and pancreas.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.