

## 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. |

**Note**

For laboratory research only, not for drug, diagnostic or other use.

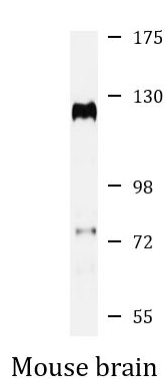
## Bioinformation

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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ARG41162 anti-MGEA5 / OGA antibody WB image

Western blot: 25 µg of Mouse brain lysate stained with ARG41162 anti-MGEA5 / OGA antibody at 1:1000 dilution.