# MGAT3 Rabbit pAb

CatalogNo: YN7088

## Key Features

| Host Species | Reactivity | Applications |
|---|---|---|
| • Rabbit | • Human,Rat | • WB |

| MW | Isotype |
|---|---|
| • 59kD (Calculated) | • IgG |

## Recommended Dilution Ratios

**WB 1:500-2000**

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

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|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | Synthesized peptide derived from human MGAT3 |
| **Specificity** | This antibody detects endogenous levels of MGAT3 at Human,Rat |

## Target Information

| | |
|---|---|
| **Gene name** | MGAT3 GGNT3 |

**Protein Name** Beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase (N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase III) (GNT-III) (GlcNAc-T III) (N-acetylglucosaminyltransferase III)

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 4248; | Q09327; |
| Mouse | | Q10470; |
| Rat | 29582; | Q02527; |

**Cellular Localization** Golgi apparatus membrane; Single-pass type II membrane protein .

**Function** It is involved in the regulation of the biosynthesis and biological function of glycoprotein oligosaccharides. Catalyzes the addition of N-acetylglucosamine in beta 1-4 linkage to the beta-linked mannose of the trimannosyl core of N-linked sugar chains, called bisecting N-acetylglucosamine (GlcNAc). It is one of the most important enzymes involved in the regulation of the biosynthesis of glycoprotein oligosaccharides. The addition of this bisecting GlcNAc residue alters not only the composition, but also the conformation of the N-glycan. The introduction of the bisecting GlcNAc residue results in the suppression of further processing and elongation of N-glycans, precluding the formation of beta-1,6 GlcNAc branching, catalyzed by MGAT5 since it is unable to use the bisected oligosaccharide as a substrate . Addition of bisecting N-acetylglucosamine to CDH1/E-cadherin modulates CDH1 cell membrane location . Inhibits NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc- formation which modulates sialylation levels and plays a role in cell migration regulation . In brain, addition of bisecting N-acetylglucosamine to BACE1 blocks its lysosomal targeting in response to oxidative stress and further degradation which increases its location to early endosome and the APP cleavage (By similarity).

## Validation Data

## Contact information


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