

For Research Use Only

# O-GlcNAc Monoclonal antibody

Catalog Number: 65292-1-Ig



## Basic Information

Catalog Number:

65292-1-Ig

GenBank Accession Number:

GeneID (NCBI):

Purification Method:

Affinity purification

Size:

150ul , Concentration: 1 mg/ml by Nanodrop;

Full Name:

CloneNo.:

CTD110.6

Source:

Mouse

Recommended Dilutions:

WB 1:5000-1:50000

Isotype:

IgM

## Applications

Tested Applications:

WB

Positive Controls:

WB : HeLa cells,

Species Specificity:

n/a

## Background Information

O-GlcNAc (O-linked  $\beta$ -N-acetylglucosamine) is a post-translational modification of serine and threonine residues in proteins. O-GlcNAc modification is abundant in all multicellular eukaryotes, exclusively found on nuclear and cytoplasmic proteins rather than membrane proteins and secretory proteins (PMID: 11269319; 10924527). O-GlcNAc is attached to the protein backbone by enzymatic addition of the N-acetylglucosamine (GlcNAc) moiety of uridine 5'-diphospho (UDP)-GlcNAc to the hydroxyl oxygen of serines or threonines by the O-linked  $\beta$ -N-acetylglucosamine transferase (OGT). O-GlcNAc glycosylated proteins can be reversibly deglycosylated by  $\beta$ -D-N-acetylglucosaminase (O-GlcNAcase) (PMID: 21526146). O-GlcNAc modification couples many biological processes and plays important roles in development, normal physiology and physiopathology (PMID: 32349769).

## Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide.

\*\*\* 20ul sizes contain 0.1% BSA

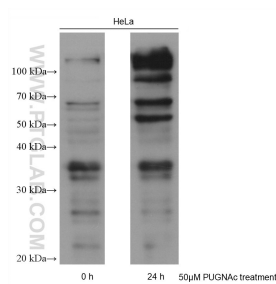
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Untreated or PUGNac (an inhibitor of N-acetyl- $\beta$ -D-glucosaminidase) treated HeLa cells were subjected to SDS PAGE followed by western blot with 65292-1-Ig (O-GlcNAc antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.