For Research Use Only

O-GlcNAc Monoclonal antibody

Catalog Number:65292-1-Ig

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Basic Information

Catalog Number:
65292-1-Ig

Size:
1 mg/mL

Source:
Mouse

Isotype:
IgM

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Purification Method:
Affinity purification

CloneNo.:
CTD110.6

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB

Species Specificity:
n/a

Positive Controls:

WB : HeLa cells,

Background Information

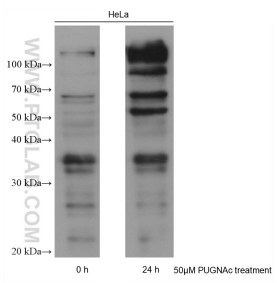
O-GlcNAc (O-linked β-N-acetylgulcosamine) is a post-translational modification of serine and threonine residues in proteins. O-GlcNAc modification is abundant in all multicellular eukaryotes, exclusively found on nuclear and cytoplasmic proteins rather than membrane proteins and secretory proteins (PMID: 11269319; 10924527). O-GlcNAc is attached to the protein backbone by enzymatic addition of the N-acetylgulcosamine (GlcNAc) moiety of uridine 5′-diphospho (UDP)-GlcNAc to the hydroxyl oxygen of serines or threonines by the O-linked β-N-acetylgulcosamine transferase (OGT). O-GlcNAc glycosylated proteins can be reversiblely deglycosylated by β-D-N-acetylgulcosaminase (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.

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Untreated or PUGNAc (an inhibitor of N-acetyl- β -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.