

# Anti-O-linked N-acetylglucosamine (O-GlcNAc) [2D5.E6]

**Catalogue number:** 153896

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Lance Wells

**Institute:** University of Georgia

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-O-linked N-acetylglucosamine (O-GlcNAc) [2D5.E6]

**Alternate name:** O-GlcNAc

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** The study of O-GlcNAc, a ubiquitous translation and transcription regulator which is found in a wide variety of proteins, is of great relevance to multiple chronic human and veterinary diseases. These include diabetes (and its effects in the heart, kidneys and eyes), cardiovascular disease, neurodegenerative disorders involving both plaque and tangle formation, inflammatory processes, liver disease, fibrosis, metabolic disorders and cancer. There is fast growing collection of evidence that O-GlcNAcylation plays a pivotal role in epigenetics.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG3

**Reactivity:** Mammals

**Selectivity:**

**Host:** Mouse

**Immunogen:** Synthetic peptide O-GlcNAc

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**  
**Formulation:**  
**Recommended controls:**  
**Bacterial resistance:**  
**Selectable markers:**  
**Additional notes:**

## Target details

**Target:** O-linked N-acetylglucosamine

**Target alternate names:**

**Target background:** The study of O-GlcNAc, a ubiquitous translation and transcription regulator which is found in a wide variety of proteins, is of great relevance to multiple chronic human and veterinary diseases. These include diabetes (and its effects in the heart, kidneys and eyes), cardiovascular disease, neurodegenerative disorders involving both plaque and tangle formation, inflammatory processes, liver disease, fibrosis, metabolic disorders and cancer. There is fast growing collection of evidence that O-GlcNAcylation plays a pivotal role in epigenetics.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** ELISA ; WB  
**Application notes:**

## Handling

**Format:** Liquid  
**Concentration:**  
**Passage number:**  
**Growth medium:**  
**Temperature:**  
**Atmosphere:**  
**Volume:**  
**Storage medium:**  
**Storage buffer:**  
**Storage conditions:**  
**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Rios et al. 2016. Angew Chem Int Ed Engl. 55(10):3387-92. PMID: 26822115. ; Synthetic Receptors for the High-Affinity Recognition of O-GlcNAc Derivatives. ; Teo et al. 2010. Nat Chem Biol. 6(5):338-43. PMID: 20305658. ; Glycopeptide-specific monoclonal antibodies suggest new roles for O-GlcNAc.

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