abcam

Product datasheet

Anti-O-Linked N-Acetylglucosamine antibody [HGAC85] - ChIP Grade ab2735

★★★★★ 3 Abreviews 10 References 2 Images

Overview

Product name	Anti-O-Linked N-Acetylglucosamine antibody [HGAC85] - ChIP Grade
Description	Mouse monoclonal [HGAC85] to O-Linked N-Acetylglucosamine - ChIP Grade
Host species	Mouse
Tested applications	**Suitable for:** ChIP, IHC, ELISA, ICC/IF, IP, WB
Species reactivity	**Reacts with:** Mouse, Rat, Sheep, Rabbit, Cow
Immunogen	Heat killed, pepsin treated group A streptococci.
General notes	DO NOT USE WITH DILUENTS CONTAINING GLYCOSYLATED PROTEINS.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Ascites
Clonality	Monoclonal
Clone number	HGAC85
Isotype	IgG3

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab2735 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP		Use at an assay dependent concentration.

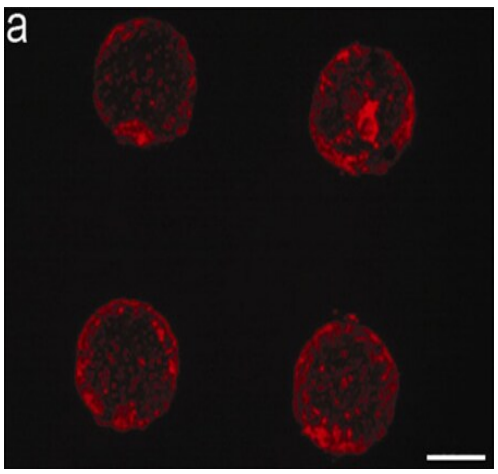
Application	Abreviews	Notes
IHC		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use a concentration of 10 µg/ml.
IP		Use at an assay dependent concentration.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. This antibody detects several proteins representing O-GlcNAc glycoproteins.

Target

Relevance

Many cellular proteins, including nuclear pore, oncogene, cytoskeletal, heat shock, viral and transcription regulatory proteins contain single O-linked N-acetylglucosamine (O-GlcNAc) residues attached to serine or threonine residues. It has been observed that O-GlcNAc glycosylated proteins tend to be under phosphorylated relative to unglycosylated proteins and that O-GlcNAc bearing proteins tend to be found in multimeric complexes. This has led to the suggestion that O-GlcNAc glycosylation may obscure phosphorylation sites and acts as a signaling mechanism or mediator of signaling.

Images

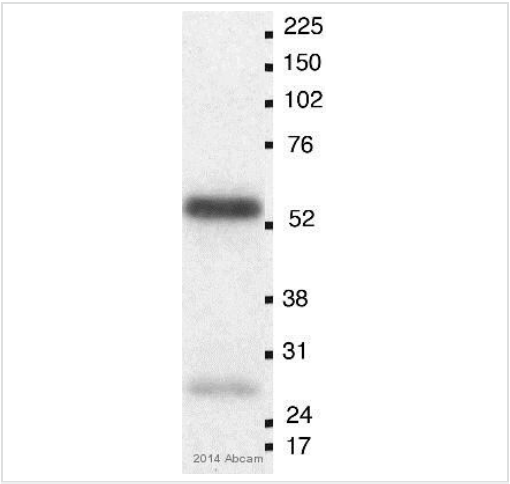


Small Molecule Fluorescent Optical Detection - Anti-O-Linked N-Acetylglucosamine antibody [HGAC85] - ChIP Grade (ab2735)

Image from Vázquez-Dorbatt V et al., Biomacromolecules, 2009, 10 (8), pp 2207–2212, Copyright 2009 American Chemical Society. Fig 5.; doi: 10.1021/bm900395h.

Fluorescence analysis of a synthetic glycopolymer, staining O-Linked N-Acetylglucosamine with ab2735.

A polydimethylsiloxane (PDMS) stamp was used for microcontact printing. The stamp was inked with a solution of glycopolymer (10 mM) and pressed into contact with freshly cleaned gold. The gold was then washed with absolute ethanol and dried with argon prior to incubating with primary antibody for 30 min followed by a AlexaFluor®568-conjugated goat-anti mouse secondary antibody for 30 min.



Western blot - Anti-O-Linked N-Acetylglucosamine [HGAC85] antibody - ChIP Grade (ab2735)

This image is courtesy of an anonymous Abreview

Anti-O-Linked N-Acetylglucosamine antibody [HGAC85] - ChIP Grade (ab2735) at 1/1000 dilution + Mouse liver tissue lysate - whole at 40 µg

Secondary

HRP-conjugated donkey anti-rabbit IgG polyclonal at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 28,54 kDa

Exposure time: 1 minute

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