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NGLY1 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP6689a

Specification

NGLY1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession	Q96IV0
Other Accession	NP_060767

NGLY1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 55768

Other Names
Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase, PNGase, hPNGase, N-glycanase 1, Peptide:N-glycanase, NGLY1, PNG1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NGLY1 Antibody (N-term) Blocking peptide - Protein Information

Name NGLY1

Synonyms PNG1

Function
Specifically deglycosylates the denatured form of N-linked glycoproteins in the cytoplasm and assists their proteasome-mediated degradation. Cleaves the beta-aspartyl-glucosamine (GlcNAc) of the glycan and the amide side chain of Asn, converting Asn to Asp. Prefers proteins containing high-mannose over those bearing complex type oligosaccharides. Can recognize misfolded proteins in the endoplasmic reticulum that are exported to the cytosol to be destroyed and deglycosylate them, while it has no activity toward native proteins. Deglycosylation is a prerequisite for subsequent proteasome-mediated degradation of some, but not all, misfolded glycoproteins.

Cellular Location
Cytoplasm.

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NGLY1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NGLY1 Antibody (N-term) Blocking peptide - Images

NGLY1 Antibody (N-term) Blocking peptide - Background

NGLY1 is an enzyme that catalyzes hydrolysis ofan N(4)-(acetyl-beta-D-glucosaminyl) asparagine residue toN-acetyl-beta-D-glucosaminylamine and a peptide containing anaspartate residue. The encoded enzyme may play a role in theproteasome-mediated degradation of misfolded glycoproteins.

NGLY1 Antibody (N-term) Blocking peptide - References

Altrich-VanLith, M.L., et al. J. Immunol. 177(8):5440-5450(2006)Allen, M.D., et al. J. Biol. Chem. 281(35):25502-25508(2006)Katiyar, S., et al. Mol. Biol. Cell 16(10):4584-4594(2005)