

ENGASE Antibody / Cytosolic endo-beta-N-acetylglucosaminidase Antibody (FY13612)

Catalog No.	Formulation	Size
FY13612	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q8NFI3
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5 ug/ml
Limitations	This ENGASE Antibody / Cytosolic endo-beta-N-acetylglucosaminidase Antibody is intended for research use only.

ENGASE Antibody by WB in human cells and mouse thymus. Western blot analysis using Cytosolic endo-beta-N-acetylglucosaminidase Antibody detects a prominent band consistent with the expected molecular weight of approximately 84 kDa in human RT4 (lane 1), Jurkat (lane 2), REH (lane 3), 293T (lane 4), and mouse thymus (lane 5) lysates. Reduced samples containing 30 ug total protein per lane were separated under reducing conditions by 10% SDS-PAGE and transferred to nitrocellulose. Following blocking with 5% nonfat milk, membranes were incubated with primary antibody at 0.5 ug/mL overnight at 4°C. Bound antibody was visualized with HRP-conjugated secondary antibody and chemiluminescent substrate.

Description

ENGASE Antibody / Cytosolic endo-beta-N-acetylglucosaminidase Antibody recognizes ENGASE, a protein with important roles in cellular physiology. ENGASE encodes cytosolic endo-beta-N-acetylglucosaminidase, an enzyme that participates in the breakdown of free N-linked oligosaccharides. These carbohydrate chains arise during glycoprotein processing and degradation, including pathways associated with endoplasmic reticulum quality control. The handling of liberated glycans is an important part of intracellular carbohydrate homeostasis because improperly processed glycan intermediates can accumulate in the cytosol.

ENGASE cleaves the chitobiose core of certain free N-glycans, releasing a terminal N-acetylglucosamine residue and producing shorter oligosaccharide products. Its action is distinct from the initial removal of N-linked glycans from proteins by peptide:N-glycanase, encoded by NGLY1. Together with other enzymes, ENGASE contributes to the sequential processing of carbohydrate structures that have been separated from their protein carriers. Cytosolic endo-beta-N-acetylglucosaminidase Antibody is a useful designation for this molecular target.

The relationship between ENGASE and NGLY1 has attracted attention in studies of congenital disorders of deglycosylation. When normal deglycosylation pathways are impaired, alternative processing by ENGASE may influence the accumulation or properties of glycan-containing intermediates. Experimental work has explored how modifying ENGASE activity changes cellular consequences of disrupted N-glycan turnover, although the relevance of individual mechanisms depends on the biological system.

ENGASE is therefore part of a specialized metabolic pathway linking glycoprotein quality control with cytosolic glycan catabolism. Its enzymatic specificity helps distinguish the degradation of free oligosaccharides from the processing of glycans still attached to proteins. Understanding this pathway provides insight into how cells recycle complex carbohydrates and respond to disturbances in protein glycosylation. NSJ Bioreagents provides ENGASE Antibody for research into the molecular biology of ENGASE. An ENGASE Antibody supports investigation of the biological processes associated with this protein.

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Application Notes

For best results, determine the optimal working dilution of the ENGASE Antibody / Cytosolic endo-beta-N-acetylglucosaminidase Antibody experimentally.

Immunogen

The ENGASE Antibody was generated using e. coli-derived human ENGASE recombinant protein (amino acids R48-P640).

Storage

After reconstitution, the ENGASE Antibody may be stored at 4oC for up to one month. For longer storage, aliquot and freeze at -20oC for up to six months. Avoid repeated freezing and thawing.

Alternate Names

ENGASE antibody, Cytosolic endo-beta-N-acetylglucosaminidase antibody, endo-beta-N-acetylglucosaminidase antibody, EC:3.2.1.96 antibody, ENGASE rabbit polyclonal antibody