Endo S

Summary

Catalog No.	YXX05201
Form	Liquid
Storage buffer	0.01M PBS, pH 7.4, 50% glycerol
Concentration	40000U/ml
Purity	>95% as determined by SDS-PAGE.
Applications	Expression Systems,Proteomics,Glycan Sequencing,Recombinant Glycoprotein Expression,Glycoprotein Analysis
Target	Endo S
Biological activity	One unit is defined as the amount of enzyme required to remove > 95% of the carbohydrate from 5 µg of native mouse monoclonal IgG in 1 hour at 37°C in a total reaction volume of 10 µl.
Endotoxin level	Please contact with the lab for this information.
Expression system	E. coli
Protein length	EndoS is cloned from Streptococcus pyogenes and expressed in E.coli.
Nature	Recombinant
Predicted molecular weight	109.35 kDa
Stability and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles.Store at 2 to 8 °C for one week .Store at -20 to -80 °C for twelve months from the date of receipt.

Experimental Procedure

Protocol

Digestion reaction condition

Reagent	Volume
Native IgG concentration(μg/μl)	C
Native IgG volume (μl)	V
Native IgG quality (μg)	100
Endo S(U)	20
Endo S(μl)	0.5
10X buffer(μl)	200
ddH2O	(200*10)-0.5-V
Reaction system(μl)	200*10

Incubate reaction at 37°C for 1 hour.

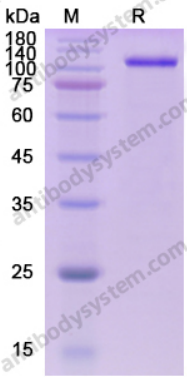
1X Buffer
5 mM $CaCl_2$
50 mM sodium acetate
(pH 5.5 @ 25°C)

Species	Streptococcus pyogenes
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.
Note	For research use only.

Description

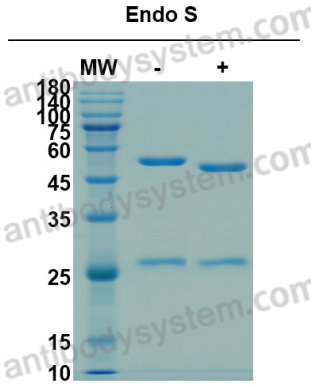
Endo S is an endoglycosidase specific for cleaving the N-linked glycans from the chitobiose core of the heavy chain of native IgG.

Data Image



SDS-PAGE

SDS PAGE for recombinant Streptococcus pyogenes EndoS



Experiment Example

Lane1：Before cleavage Lane2：After cleavage The control IgG was cleaved by Endo S at 37°C for 1 h