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Datasheet for ABIN6990643

**anti-ST8SIA4 antibody (N-Term)**

## Overview

Quantity:	0.1 mg
Target:	ST8SIA4
Binding Specificity:	AA 80-130, N-Term
Reactivity:	Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ST8SIA4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Pst1 antibody was raised against a synthetic peptide from the amino terminus of yeast Pst1. The immunogen is located within amino acids 80 - 130 of Pst1.
Isotype:	IgG
Purification:	Pst1 Antibody is affinity chromatography purified via peptide column.

## Target Details

Target:	ST8SIA4
Alternative Name:	Pst1 ( <a href="#">ST8SIA4 Products</a> )
Background:	Pst1 Antibody: Protoplast secreted protein 1 (Pst1) is an anchored plasma membrane protein. Pst1 was previously identified as a protein secreted by yeast regenerating protoplasts, which suggests a role in cell wall construction. Pst1 is a protein with 444 amino acids and is attached

## Target Details

to yeast cell wall via a glycosylphosphatidylinositol (GPI) anchor. Pst1 contains 15 potential N-linked glycosylation sites and is heavily glycosylated. It migrates at approximately 200 kDa on SDS-PAGE when produced in wild type *S. cerevisiae*. Our Pst1 protein (Catalog No. 95-151) was expressed in a genetically manipulated triple-mutant (TM) *S. cerevisiae* strain ( $\Delta$ ,och1  $\Delta$ ,mnn1  $\Delta$ ,mnn4), which results in the production of sole Man8GlcNAc2 carbohydrate structures and Pst1 migration at approximately 100 kDa. When produced in the TM yeast, Pst1 can be recognized by several glycan-specific HIV-1 broadly neutralizing antibodies, including 2G12 and recently identified PGT antibodies. Among several heavily N-glycosylated TM yeast glycoproteins, Pst1 shows higher affinity for 2G12 and efficiently inhibits gp120 interactions with 2G12 and DC-SIGN, and it also blocks 2G12-mediated neutralization of HIV-1 pseudoviruses.

Molecular Weight:	49 kDa
Gene ID:	851625
UniProt:	<a href="#">Q12355</a>

## Application Details

Application Notes:	Pst1 antibody can be used for detection of Pst1 by Western blot and ELISA at 1 $\mu$ g/mL.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Pst1 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C
Storage Comment:	Pst1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.