product AS07 267
Xylose

product information

**Background**
This antibody specifically cross-reacts against xylose residues bound to the protein N-glycans in beta 1,2. This residue is characteristic of the plant protein N-glycans and is absent in protein N-glycans from animals. This residue is added in the Golgi apparatus.

**Immunogen**
xylose residues bound to the N-glycan in beta 1,2

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Affinity purified serum in PBS, pH 7.4

**Format**
Lyophilized

**Quantity**
50 µg

**Reconstitution**
For reconstitution add 50 µl of sterile water

**Storage**
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**
Western blot (WB)

**Related products**
AS07 268 | Anti-fucose, rabbit antibodies

**Plant and algal protein extraction buffer**

**Secondary antibodies**

**Additional information**
Beta (1,2) xylose is present exclusively in plant N-glycans so antibodies against this sugar moiety should not cross-react with any mammal glycoprotein.

This antibody do not bind free D-xylose. This antibody does not seem to work in immunolocalization.

Application information

**Recommended dilution**
1 µg/ml (ELISA), 2 µg/10 ml incubation buffer (WB)

**Expected | apparent MW**
10-100 for various glycoproteins

**Confirmed reactivity**
Higher plants and algae

**Predicted reactivity**
Higher plants

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
Negative control: Fetuin, a glycoprotein containing fucose linked in alpha 1.6 and no xylose, Sigma, product number F3385.

Positive control: Type II - horseradish peroxidase which contains 1.2 Xylose and 1.3 fucose, Sigma, product number P8250

**Selected references**


Application example

Total cell extract from Arabidopsis thaliana wild type (1) and cell extracts from different mutants defective in the complex N-glycan maturation pathway (2-5) (data not published yet).

Primary antibody has been used at 2 µg/10 ml of incubation buffer. Detection has been done using ECL.

Dot blot reaction of anti-Fucose and anti-Xylose antibodies with various controls: Avidin (Fuc+/Xyl+), Fetuin (Fuc-/Xyl-), PLA2 (Fuc+/Xyl-) and Mur1-2 (Fuc-/Xyl+). 2 µl of each extract were spotted on a nitrocellulose membrane, placed on top of 2 WHATMAN filters (one soaked in TBS-T) and dried for 1.5 h at RT. The membrane was blocked for 30 min with 2% low-fat milk powder in TBS-T (0.1% TWEEN 20) and incubated with anti-Fucose(1) (AS07 268, 1:1000) or anti-Xylose(2) (AS07 267, 1:1000) for 30 min and then with secondary anti-rabbit(1:1000) antibody (ALP conjugated, recommended secondary antibody AS09 607). Membrane was washed with TBS-T 3 x 10 minutes before reaction development using alkaline phosphatase reagent BCIP®/NTB premixed solution (Sigma, Prod. No. B6404).

Please follow this link for a more detailed Dot-Blot protocol