

Peanut Lectin

Cat. No. GTX01506

Applications	Conjugation, Purification
Species	Arachis hypogaea

Package

1 mg

PRODUCT

Summary

Peanut lectin (PNA) is an identical tetrameric carbohydrate free protein with MW of 110 kDa. Thomsen-Friedenreich antigen, T-antigen (Gal β 1, 3GalNAc) is present on blood group M & N glycoproteins (after removal of sialic acid with neuraminidase), glyconjugates (Mucin type), gangliosides and many glycolipids. T antigen is rarely expressed on normal colonocytes whereas cells of malignant, premalignant cells express this antigen. Peanut lectin has widely been used to detect T antigen in malignant and premalignant cells.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution

Recommended dilution

Conjugation

Assay dependent

Purification

Assay dependent

Note : Azide should be removed.

Conjugation to Sepharose 4B (solid phase columns) to purify mucin type glycoproteins. Inhibiting/Eluting sugars : 200 mM Galactose

Not tested in other applications.

Product Note

Carbohydrate-Binding Specificity of Peanut Lectin : Gal β 1, 3 GalNAc > GalNAc > Gal

Properties

Form	Liquid
Buffer	10mM Bicarbonate, 150mM NaCl, 0.1mM CaCl ₂ . Dilute in 0.1mM CaCl ₂ buffer.
Preservative	0.05% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.
Concentration	5 mg/ml (Please refer to the vial label for the specific concentration.)
Region/Sequence	Native Protein
Expression System	Native Protein
Purification	Purified from Peanut
Conjugation	Unconjugated



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