

Peanut Lectin (FITC)

Cat. No. GTX01508

Applications	ICC/IF
Species	Arachis hypogaea

References (1)
 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

ICC/IF	1:250-1:1000
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Not tested in other applications.

Product Note

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

Properties

Form	Liquid
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Buffer	10mM Bicarbonate, 150mM NaCl, 0.1mM CaCl ₂
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Preservative	0.05% Sodium azide
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Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.
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Concentration	5 mg/ml (Please refer to the vial label for the specific concentration.)
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Region/Sequence	Native Protein
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Expression System	Native Protein
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Purification	Purified by affinity chromatography followed by gel filtration chromatography Purified from Peanut
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Conjugation	Fluorescein isothiocyanate (FITC) Wavelength Absorption : 490 nm ; Emission : 520 nm. Ratio : 1.0-1.4 molecules FITC (isomer 1) per Lectin molecule.
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