Active Native Peanut Lectin Protein, Fluorescein labeled

Cat. No. Lectin-1816P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the Fluorescein labeled Peanut Agglutinin (PNA) Lectin and has sugar specificity against Galactose. The excitation maximum is at 495 nm and the emission maximum is at 515 nm.
Species	Peanut
Source	Peanut
Description	Peanut agglutinin binds preferentially to the T-antigen, a galactosyl (β-1,3) N-acetylgalactosamine structure present in many glycoconjugates such as M and N blood groups, gangliosides, and many other soluble and membrane-associated glycoproteins and glycolipids. With certain exceptions, the receptor sequence for PNA is normally sialylated which prevents the lectin from binding to its receptor oligosaccharide (see Jacalin). Even sialic acid which is not bound directly to the receptor sugars may inhibit binding. The presence of calcium ions in diluents can enhance the binding of PNA to receptors, possibly by neutralizing the negative charges on sialic acid residues adjacent to the receptor sequence.
Form	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM Ca2+, 0.01mM Mn2+
Bio-activity	Inhibiting/Eluting Sugar: 200 mM galactose
Molecular Mass	110 kDa

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Applications	Immunofluorescence, Glycobiology
Usage	The recommended concentration range for use is 5-20 g/ml.
Storage	Refrigerate in the dark. If a precipitate forms upon long-term storage at 4 centigrade, warm to 37 centigrade and centrifuge before use.

GENE INFORMATION

Synonyms	Lectin; PNA
UniProt ID	P02872

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