

Native Peanut *Arachis hypogaea* Lectin (PNA), Texas Red-Conjugated

Cat. No. PNA-531P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Peanut <i>Arachis hypogaea</i> Lectin (PNA) - Texas Red
	Blood Group Specificity: Non-specific
	Preferred Sugar Specificity: Gal β 3GalNAc
	Inhibiting or Eluting Sugar: Galactose
	Divalent Ions: Ca ⁺⁺ , Mg ⁺⁺
	Excitation: 595 nm
	Emission: 615 nm
	Mitogenic Activity: No
	Hazardous Shipping: Non-hazardous
	Fluorescence: Red
	Appearance Color: Red
Species	Peanut
Source	Peanut
Description	<i>Arachis hypogaea</i> agglutinin (PNA) is purified by affinity chromatography and is consisting of four subunits of approximately 27,000 each. This lectin has an isoelectric point between pH 5. 5 and pH 6. 5. Although extracts of <i>Arachis hypogaea</i> do not agglutinate untreated or trypsin-treated human erythrocytes, PNA has been known to agglutinate neuraminidase-treated human red blood cells. PNA may be used for clinical determination of T-polyagglutinability of erythrocytes and probing cell membranes of normal and malignant cells. This lectin can be of use in

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characterization of tumor-specific antigens on the surface of malignant cells. It can be employed in the fractionation of stem cells in mice for use in bone marrow transplantation across histocompatibility barriers. Texas Red is a red-fluorescent dye and when bound to Arachis hypogaea (Peanut) Lectin (PNA) can show the binding pattern of this lectin in cellular imaging applications. There is very little overlap between the emission spectra of Texas Red and FITC making this combination ideal for dual-labeling experiments. Rhodamine dyes, such as Texas Red, are more photostable and less sensitive to pH change when compared to other dyes such as fluorescein.

Form	Liquid
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At -20 centigrade.
Concentration	5 mg/mL

GENE INFORMATION

Official Symbol	PNA
Synonyms	Arachis hypogaea Lectin; PNA

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