

## Native Peanut Lectin, Biotin conjugated

**Cat. No.** Lectin-1720P    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | This product is arachis hypogaea lectin which against Gal beta 1-3 GalNac (Biotin). Affinity purified PNA is conjugated with Biotin and purified in gel filtration column.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Peanut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Peanut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>Peanut lectin (PNA) is an identical tetrameric carbohydrate free protein with MW of 110 kDa. Thomsen-Friedenreich antigen, T-antigen (Gal<math>\beta</math>1, 3GalNac) is present on blood group M &amp; 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. Peanut lectin contains one atom of Ca<sup>2+</sup> and Mg<sup>2+</sup> per unit.</p> <p>Inhibiting/Eluting sugars: 200 mM Galactose</p> <p>Carbohydrate-Binding Specificity of PNA: Gal<math>\beta</math>1, 3 GalNac&gt;&gt;&gt;&gt;&gt;GalNac&gt;Gal</p> |
| <b>Form</b>             | 10 mM bicarbonate, 150 mM NaCl, pH 8.2, 0.1 mM Calcium chloride and 0.05% sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | <p>ELISA, IHC, WB.</p> <p>Histochemistry 1: 250-1:1000; WB 1:500-1:2,500; ELISA 1:500-1:2,500. Dilute biotinylated lectin in PBS containing 0.1 mM calcium chloride ions. For Histochemistry</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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the tissues are processed same as for Immunohistochemistry, after blocking step biotinylated lectin is applied followed by streptavidin conjugated to enzyme and chromogen. For WB incubate membrane with blocking protein followed by biotinylated lectin, streptavidin enzyme conjugate and chromogen. For ELISA the target proteins are absorbed on ELISA plate at a concentration of 5-10 µg/ml (50-100 µl), followed by blocking with protein solution, Biotinylated lectin, Streptavidin enzyme conjugate, ELISA substrate. Please refer to Histochemistry, WB and ELISA protocol for detail information. The optimum dilution should be determined by the individual lab.

**Storage** Store at 2-8centigrade.

**Concentration** 5 mg/ml (Please refer to the vial label for the specific concentration)

## GENE INFORMATION

**Synonyms** Peanut Lectin, PNA, PNA lectin, Arachis hypogaea, Arachis hypogaea lectin, Peanut agglutinin lectin, Peanut agglutinin

**UniProt ID** [P02872](#)

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