

FITC labeled SNA-II Lectin

Product Description

Name :	Pure <i>Sambucus nigra</i> lectin (SNA-II), from elderberry - FITC conjugated
Catalog Number :	FP-MS6340 1 mg purified SNA-I FITC / 1 ml Buffer
Absorption / Emission :	$\lambda_{exc}/\lambda_{em} = 492 / 517$ nm
Purification Procedure :	Gel filtration performed after conjugation to remove free FITC
Carbohydrate Specificity :	GalNAc>Gal
Inhibitory Carbohydrate :	High concentration Lactose > β -Galactose
Activity :	SNA-II agglutinates animal and human erythrocytes. The lectin has a slight preference for type B over A and type O erythrocytes.
Buffer :	0.01M Phosphate - 0.15M NaCl, pH 7.2 – 7.4. Contains 0.05% sodium azide as a preservative.

Storage: Store liquid material frozen in aliquots in amber vials or covered with foil. Avoid freeze thaw cycles. Clarify by centrifugation. Protect from light and moisture.

Stability: The liquid material is stable for at least 1 year when stored frozen in aliquots with 0.05% sodium azide added as a preservative.

Directions for use

Remarks

Fluorescent Conjugates are extremely light sensitive.

Procedure

The following is a general Procedure and Trouble-Shooting Guide. The information is provided only for your convenience.

Tissue Sections

1. Wash and block tissue section. Do not use serum products, they contain glycoproteins which may lead to high levels of non specific background. After blocking, rinse briefly with Buffer.
2. Dilute **Fluorescent Labeled Lectin** to desired concentration 20-100 μ g/ml using Buffer.
3. Incubate tissue section with Fluorescent Labeled Lectin for 30 minutes in a moist chamber.
4. Wash tissue section with Buffer three times.
5. Examine tissue section with Fluorescent microscope. Use appropriate filter.

Ref. M. Imbar et. al., (1973). Intl. Journal of Cancer, **12**, 93-99

Cell Suspension

1. Wash cells with Buffer
2. Collect cells by centrifugation.
3. Dilute **Fluorescent Labeled Lectin** to 100 μ g/ml using Buffer.
4. Incubate approximately 1×10^6 cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room temperature or in a 37°C water bath.
5. Wash cells with Buffer three times using centrifugation.
6. Examine cells, with or without fixation with Fluorescent microscope. Use appropriate filter.

Ref. K. Phiss. (1977). Experimental Pathology, **14**, S15

FT-MS6350

Fluorochromes must be protected from light.
Perform incubation, when practical, in a dark room or covered in foil.

Carbohydrate Inhibition

Inhibition of lectin binding may be accomplished by using one of two procedures:

- A. Before incubating with **Fluorescent Labeled Lectin**, incubate section or cells with inhibitory carbohydrate for 30-60 minutes at room temperature. NOTE: Complete inhibition may NOT occur.
- B. Preincubate diluted **Fluorescent Labeled Lectin** with inhibitory carbohydrate for 30-60 minutes at room temperature before applying to section or cells.

TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
Weak or no Staining	<ol style="list-style-type: none"> Low concentration of specific oligosaccharide on sample. Low concentration of lectin conjugate. Weak or no conjugate. Insufficient incubation time. Photobleaching 	Causes #1 - #3 a. Increase incubation time. b. Increase concentration a. Avoid exposure to light
High Background	<ol style="list-style-type: none"> Lectin conjugate is too concentrated. Insufficient washing. Autofluorescent sample. 	a. Decrease concentration of Lectin conjugate. b. Shorten incubation times. a. Perform multiple washings and prolong washing time. a. Use fluorochrome with different excitation and emission spectrum. b. Use a different lectin conjugate (enzyme or colloidal gold).
Unexpected Staining Pattern	Multiple causes	a. Perform control reactions. b. Use other cytochemical technique to prove or disprove the findings.

References

- Broekaert W.F. *et al.*, Biochem. J. **221**, 163-169 (1984)
- Kaifu R. *et al.*, Carbohydr. Res., **52**, 179-185 (1976)
- Peumans W.J. *et al.*, E.J.M. (1991)

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- [Lectin List](#) (or search [conjugated lectins](#)):
- ConA-Biotin, [FP-MS9690](#); -FITC, [FP-47496A](#);
- -Cy3, [FP-WT8680](#),
- GS-I-FITC; [FP-MS9020](#)
- PNA-FITC, [FP-BV4181](#)
- WGA-biotin, [FP-MS5730](#); -SR101, [FP-MS9540](#); -FITC, [FP-CE8070](#)

Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](#)

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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