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SOYBEAN AGGLUTININ (SBA), BIOTINYLATED

SKU: B-1015-5



DESCRIPTION

SBA preferentially binds to oligosaccharide structures with terminal α- or β-linked *N*-acetylgalactosamine, and to a lesser extent, galactose residues. Binding can be blocked by substitutions on penultimate sugars, such as fucose attached to the penultimate galactose in blood group B substance.

Biotinylated Soybean agglutinin has an appropriate number of biotins bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated biotins and is preserved with sodium azide.

SPECIFICATIONS

Molecular Weight	120
Extinction Coefficient	1.33

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Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2
Inhibiting or Eluting Sugar	GalNAc
Unit Size	5 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	Terminal GalNAc epitopes and Forssman antigen
Usage Summary	For most applications we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	5 mg active conjugate/ml
Conjugate	Biotinylated

TECHNICAL INFORMATION

Composed of four subunits of approximately equal size, soybean agglutinin is a family of closely related isolectins. This glycoprotein has a molecular weight of about 120 kDa and an isoelectric point near pH 6.0.

An important application for SBA is the separation of pluripotent stem cells from human bone marrow. Cells fractionated by SBA do not produce graft vs host disease and can be used in bone marrow transplantation across histocompatibility barriers.

This biotinylated lectin is an ideal intermediate for examining glycoconjugates using the Biotin-Avidin/Streptavidin System. First the biotinylated lectin is added, followed by the VECTASTAIN ABC Reagent, Avidin D conjugate, or streptavidin derivative.

Inhibiting/Eluting Sugar: 200 mM *N*-acetylgalactosamine

CITATIONS

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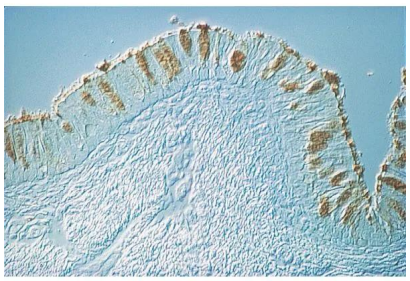
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DOCUMENTS

- Safety Data Sheet
- Lectins in Histochemistry, ELISA, and Western Blot Applications
- Download CoA
- Datasheet

GALLERY IMAGES





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