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PHASEOLUS VULGARIS ERYTHROAGGLUTININ (PHA-E), BIOTINYLATED

SKU: B-1125-2

DESCRIPTION

Phaseolus vulgaris agglutinin is the name ascribed to a family of lectins, each of which consists of four subunits. There are two different types of subunits. One appears to be involved primarily in red cell agglutination and has been designated the “E” subunit (for erythroagglutinin). The other type is involved in lymphocyte agglutination and mitogenic activity and has been termed the “L” subunit (for leucoagglutinin). These subunits combine to produce five isolectins.

Biotinylated PHA-E 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

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Molecular Weight	126
Extinction Coefficient	1.16
Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.1 mM CaCl2, 0.08% sodium azide.
Inhibiting or Eluting Sugar	Desialylated Fetuin or GalNAc
Unit Size	2 mg
Storage Instructions	2-8 °C
Sugar Specificity	β1,4-branched (bisected) N-glycan
Usage Summary	For most applications we recommend a freshly prepared working solution of 10 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	2 mg active conjugate/ml
Conjugate	Biotinylated

TECHNICAL INFORMATION

PHA-E possesses strong hemagglutinating activity but is a poor mitogen. PHA-L, with four L type subunits, does not agglutinate red cells but is a potent mitogen. The other three isolectins, designated E3L1, E2L2, and E1L3, have erythroagglutinating and mitogenic activities proportional to the number of respective E or L subunits. We have termed the mixture of the five isolectins PHA (E+L).

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.

Elution: 100 mM acetic acid

CITATIONS

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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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