

Native Horse gram Dolichos biflorus Lectin (DBA), Texas Red-Conjugated

Cat. No. DBA-537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Horse gram Dolichos biflorus Lectin (DBA) - Texas Red

Blood Group Specificity: Non-specific

Preferred Sugar Specificity: α -N-Acetylgalactosamine

Inhibiting or Eluting Sugar: N-Acetylgalactosamine

Divalent Ions: Ca⁺⁺, Mn⁺⁺, Mg⁺⁺, Zn⁺⁺

Excitation: 595 nm

Emission: 615 nm

Mitogenic Activity: No

Hazardous Shipping: Non-hazardous

Fluorescence: Red

Species Horse gram

Source Horse gram

Description

Dolichos biflorus agglutinin (DBA) is isolated from horse gram and purified by affinity chromatography. DBA is a glycoprotein with a molecular weight of about 111,000 and consists of 4 subunits of equal size. This lectin has an isoelectric point between pH 4.6 and pH 5.5. DBA has been used as a general marker of developing renal collecting ducts, which can then be used to establish secretion status in blood group A individuals by hemagglutination inhibition and for detecting blood typing. DBA is over thousand times more active in agglutinating blood group A1 cells versus A2 cells, and is used to distinguish these blood types in routine serology applications, and has

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

potential applications in examining tumors which affect the levels of blood group substances. Reconstitute with sterile buffer. Calcium, manganese, magnesium, and zinc ions are required for binding. Texas Red is a red-fluorescent dye and when bound to Dolichos biflorus Lectin (DBA) 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 2-8 centigrade.
Concentration	2 mg/mL

GENE INFORMATION

Official Symbol	DBA
Synonyms	Dolichos biflorus Lectin; DBA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA