www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

LENS CULINARIS AGGLUTININ (LCA), DYLIGHT 649

SKU: DL-1048-1



DESCRIPTION

Lens culinaris agglutinin (LCA) recognizes sequences containing α-linked mannose residues but recognizes additional sugars as part of the receptor structure, giving it a narrower specificity than Con A. An α-linked fucose residue attached to the N-acetylchitobiose portion of the core oligosaccharide significantly enhances affinity. By exploiting this increased specificity, glycoproteins and glycopeptides can be subfractionated with LCA after initial isolation with Con A.

DyLight™ 649 labeled LCA has an appropriate number of bound fluorochromes, which provides the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorochromes.

• Excitation maximum: 655 nm
• Emission maximum: 670 nm
• Color: Far redLens Culinaris Agglutinin (LCA), DyLight™ 649 is provided in a 1 mL aliquot at a concentration of 1 mg active conjugate/ml.

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SPECIFICATIONS

Molecular Weight	50
Color of Fluorescence	Far Red
Extinction Coefficient	1.25
Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2, 0.01 mM MnCl2
Inhibiting or Eluting Sugar	Mixture of a-methyl-mannoside & a-methyl-glucoside
Maximum Emission	670 nm
Maximum Excitation	655 nm
Unit Size	1 mg
Storage Instructions	2-8 °C
Sugar Specificity	α1,6-linked fucose
Usage Summary	The recommended concentration range for use is 5-20 µg/ml. If a precipitate forms upon long-term storage, warm to 37 ºC.
Applications	Immunofluorescence, Glycobiology
Concentration	1 mg active conjugate/ml
Conjugate	DyLight 649

TECHNICAL INFORMATION

Lens culinaris agglutinin is composed of four subunits – two of about 17 kDa and two of 8 kDa.

LCA has been found to be one of the most effective agents in preventing skin allograft rejection in model systems. LCA has been used to purify numerous glycoproteins, including immunoglobulins, histocompatibility antigens, and α2-macroglobulin.

Accompanying each fluorescent lectin is an analysis data sheet summarizing the results of our quality control tests and providing pertinent information on the product. All of these reagents are supplied as solutions preserved with sodium azide.

Inhibiting/Eluting Sugar: mixture of 200 mM α-methylmannoside/200 mM α-methylglucoside

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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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