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# LYCOPERSICON ESCULENTUM (TOMATO) LECTIN (LEL, TL), TEXAS RED

**SKU:** TL-1176-1




## DESCRIPTION

Tomato lectin, although sharing some specificities with potato lectin, Datura lectin, and wheat germ agglutinin, has been reported to be dissimilar in many respects. LEL binds well to glycophorin and Tamm-Horsfall glycoprotein and has been used effectively to label vascular endothelium in rodents.

Texas Red® labeled Tomato lectin has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorochromes. The excitation maximum is at 595 nm and the emission maximum is at 615 nm.

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# SPECIFICATIONS

| | |
|---|---|
| **Molecular Weight** | 71 |
| **Color of Fluorescence** | Red |
| **Extinction Coefficient** | 0.76 |
| **Formulation** | 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide 0.1 mM CaCl2. |
| **Inhibiting or Eluting Sugar** | Chitin Hydrolysate |
| **Maximum Emission** | 606-615 nm |
| **Maximum Excitation** | 595-604 nm |
| **Unit Size** | 1 mg |
| **Storage Instructions** | 2-8 °C |
| **Sugar Specificity** | Chitin oligomers, type 2 polyLacNAc, and Type 2 LacdiNAc |
| **Usage Summary** | If a precipitate forms upon long-term storage, warm to 37 ºC. |
| **Applications** | Immunofluorescence, Glycobiology |
| **Concentration** | 1 mg active conjugate/ml |
| **Conjugate** | Texas Red |

# TECHNICAL INFORMATION

Tomato lectin is a very stable single subunit glycoprotein containing about 50 percent arabinose and galactose and may form multimeric aggregates in solution.

Tomato lectin (from *Lycopersicon esculentum*) is an effective marker of blood vessels and microglial cells in rodents. Conjugation of the lectin with a fluorophore facilitates fast, one-step detection and visualization using intravascular perfusion methods or direct application to tissue sections.

Texas Red® or DyLight™ 594 conjugated tomato lectin provides an excellent contrast to green/yellow fluorescence such as GFP expressed in transgenic animals, or with fluorescein conjugates in standard double label studies. The tomato lectin complements our existing range of lectin reagents and should be a valuable tool in examining rodent tumor angiogenesis, tracing neovascular development in xenograft models and brain research.

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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: Chitin Hydrolysate

## CITATIONS

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## DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

## GALLERY IMAGES



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