Active Native Spindle tree Euonymus europaeus Lectin (EEL/EEA), HRP-Conjugated

Cat. No. EEL/EEA-355S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Spindle tree Euonymus europaeus Lectin (EEL/EEA) - HRP (Horseradish Peroxidase) Blood Group Specificity: Non-specific Preferred Sugar Specificity: Galα3Gal Inhibiting or Eluting Sugar: Lactose Divalent Ions: Ca++, Zn++ Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous Carbohydrate Specificity: Galα3Gal, high mannose N-type glycans
Species	Spindle tree
Source	Spindle tree
Description	Euonymus europaeus lectin or agglutinin (EEL/EEA) is affinity purified and is a homodimer consisting of subunits of 17 kDa linked by disulfide bonds. EEL consists of six closely related lectins (isoforms). Previous reports of higher molecular weight and overestimated carbohydrate percentage are attributed to lectin-glycoprotein complexes and not the Euonymus europaeus lectin itself. This lectin is characteristic of its erythrocyte agglutinating properties and specificity for blood groups B and H. It has a stronger binding of the B oligosaccharide with higher affinity for B-type II in comparison to H structures with Galα1,3 structures. Conversely, it has also been reported that EEL has preferential binding to H blood group-related carbohydrates

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	over the B bloof group due to similarities in the β-trefoil fold found in EEL and ricin B-like lectins. EEL's general pattern allows it to interact with both α-fucose residues on B and H blood groups as well as high mannose N-type glycans. This lectin binds to endothelial cells from human and non-human sources and recognizes carbohydrate structures on the surface of stimulated murine peritoneal lymphoid cells. EEL also has applications as a endothelial/epithelial marker in canine tissues and has been studied in Kashin-Beck disease. Horseradish peroxidase (HRP) is a 40 kDa protein that catalyzes the oxidation of substrates by hydrogen peroxide, resulting in a colored or fluorescent product or release of light as a byproduct of the reaction. It is most commonly used for blotting, immunoassays and immunohistochemistry methods. Affinity purified WGA is conjugated to HRP at an appropriate ratio to provide optimal staining characteristics.
Form	Liquid
Bio-activity	50 mg/ml will agglutinate human A2 erythrocytes.
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	Store frozen at -20 centigrade in amber vials or covered with foil in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at 2-8 centigrade for short term use. Clarify by centrifugation, if needed.
Concentration	2 mg/mL

GENE INFORMATION

Official Symbol	EEL/EEA

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Synonyms	Euonymus europaeus Lectin; EEL/EEA

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