

Native Kidney bean Phaseolus vulgaris Lectin (PHA-E), Ferritin-Conjugated

Cat. No. PHA-E-279K **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Kidney bean Phaseolus vulgaris Lectin (PHA-E) - Ferritin Blood Group Specificity: Non-specific Preferred Sugar Specificity: Complex N-Glycans Inhibiting or Eluting Sugar: Bovine Thyroglobulin, Acetic Acid Divalent Ions: Ca⁺⁺, Mn⁺⁺ Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous
Species	Kidney bean
Source	Kidney bean
Description	Affinity purified Phaseolus vulgaris lectin (PHA-E) is tetrameric glycoprotein and responsible for the erythroagglutinating properties of the PHA fraction. It has a carbohydrate specificity towards oligosaccharides and elutes with bovine thyroglobulin or acetic acid. PHA-E will bind to both human erythrocytes and lymphocytes, with a specificity towards blood group A (-SA). There are five times more PHA-E receptors on normal human lymphocytes than there are on erythrocytes. PHA-E binds di-galactosylated and bisected N-glycan. This lectin is widely used as a biochemical tool for detecting bisecting GlcNAc- and Gal-bearing glycoproteins. Phaseolus vulgaris Lectin (PHA-E) is conjugated to ferritin, that has a molecular weight of 474,000 g/mol (all 24 subunits combined). Ferritin-conjugated lectins can be used to visualize localization of specific saccharide moieties and examine the

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distribution of plasma membrane glycoproteins. These conjugates can be viewed via electron microscopy.

Form	Liquid
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At -20 centigrade.
Concentration	1 mg/mL

GENE INFORMATION

Official Symbol	PHA-E
Synonyms	Phaseolus vulgaris Lectin; PHA-E)

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