Native Chickpea Cicer arietinum Lectin (CAL/CPA), AP-Conjugated

Cat. No. CAL/CPA -048C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Chickpea Cicer arietinum Lectin (CAL/CPA) - AP (Alkaline Phosphatase) Blood Group Specificity: Non-specific Preferred Sugar Specificity: Complex N-Glycans Inhibiting or Eluting Sugar: Human IgM, Bovine Fetuin Divalent Ions: Ca++, Mn++ Hazardous Shipping: Non-hazardous
Species	Chickpea
Source	Chickpea
Description	Cicer arietinum lectin or agglutinin (CAL/CPA) is a homodimer composed of two subunits. This lectin is a glycoprotein that contains 4. 5% neutral sugars and is basic in nature (pI: 9. 0). CAL possess complex-sugar specificity for N-glycans and N-acetyl-D-galactosamine, and elutes with acetyl-D-galactosamine. Although neither human or rabbit erythrocytes are agglutinated by this lectin, pronase-treated rabbit and human erythrocytes have been successfully agglutinated. None of the sugars, such as glucose, mannose or galactose, nor their derivatives, disaccharides, trisaccharides and tetrasaccharides have any effect on the agglutination of this lectin. Alkaline phosphatase (AP) is conjugated to Cicer arietinum Lectin (CAL/CPA) to show the binding of CAL/CPA in many applications including Western blotting and ELISA. Alkaline phosphatase is a large protein (140 kDa) that catalyzes the hydrolysis of phosphate groups from a substrate resulting in a colored or fluorescent product. The

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	optimal enzymatic activity of this protein is between pH 8 and 10, and its reaction rate remains linear, improving sensitivity over time.
Form	Liquid
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At 2-8 centigrade.
Concentration	1 mg/mL

GENE INFORMATION

Official Symbol	CAL/CPA
Synonyms	Cicer arietinum Lectin; CAL/CPA

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