Datasheet for ABIN568510

anti-Concanavalin A antibody (HRP)

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Overview

Quantity:	1 mL
Target:	Concanavalin A (ConA)
Reactivity:	Jack Bean
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Concanavalin A antibody is conjugated to HRP
Application:	Immunodiffusion (ID), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (IF)

Product Details

Immunogen:	The lectin Concanavalin A is a cell-agglutinating protein reacting specifically with molecules which contain a-D-mannopyranosyl, a-D-glucopyranosyl and sterically related residues. At pH 4.5-5.6 it exist as a dimer, above pH 7.0 predominantly as a tetramer. The monomer has a molecular weight of about 52,000. Freund's complete adjuvant is used in the first step of the immunization procedure.
Isotype:	IgG
Characteristics:	Molar Ratio: Peroxidase/IgG: ~ 1.3
Purification:	Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography. Undesired traces of antibody activity are eliminated by Immunoaffinity chromatography

Target Details

Target:	Concanavalin A (ConA)
Alternative Name:	Concanavalin-A (ConA Products)
Background:	Concanavalin A (ConA) is a lectin (carbohydrate-binding protein) originally extracted from the jack-bean, Canavalia ensiformis. It is a member of the legume lectin family. It binds specifically to certain structures found in various sugars, glycoproteins, and glycolipids, mainly internal and nonreducing terminal α-D-mannosyl and α-D-glucosyl groups. ConA is a plant mitogen, and is known for its ability to stimulate mouse T-cell subsets giving rise to four functionally distinct T cell populations, including precursors to suppressor T-cell, one subset of human suppressor T-cells as well is sensitive to ConA. ConA was the first lectin to be available on a commercial basis, and is widely used in biology and biochemistry to characterize glycoproteins and other sugar-containing entities on the surface of various cells. It is also used to purify glycosylated macromolecules in lectin affinity chromatography, as well as to study immune regulation by various immune cells.Synonyms: Con-A, ConA, Concanavalin A
Gene ID:	3823
UniProt:	P02866

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	Restore by adding 1 mL sterile di stilled water.
Concentration:	10.0 mg/mL
Buffer:	PBS, pH 7.2 withouit preservatives.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Prior to reconstitution store at 2-8 °C. Following reconstitution store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.