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Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated

Urease Antibody Biotin Conjugated
Catalog # ASR4767

Specification

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Product Information

Host	**Rabbit**
Conjugate	**Biotin**
Target Species	**Jack Bean**
Clonality	**Polyclonal**
Application	**WB, E, IP, I, LCI**
Application Note	**Anti-Urease biotin conjugated antibody has been tested by ELISA and western blot. This product is assayed against 1.0 ug of Urease in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethyl benthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Urease [Jack Bean]**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Additional Information

Purity
Anti-Urease antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Urease [Jack Bean]. Cross reactivities against Urease from other sources may occur but have not been specifically determined.

Storage Condition
Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Protein Information

Name UREA

Function
Urea hydrolase involved in nitrogen recycling from ureide, purine, and arginine catabolism (PubMed:26690979). Is known to be highly toxic and lethal when given by intravenous route, producing convulsions and other signs of central nervous system intoxication associated with the high levels of ammonia formed in the blood of mice and rabbits (PubMed:26690979). Is neurotoxic in mammals, when directly injected into hippocampus (PubMed:33631299). It may induce seizures by acting at a neuronal network level, thereby disturbing electroencephalographic rhythms and causing metabolic alterations in key areas related to epileptogenesis and to neurogenic pulmonary edema (PubMed:33631299). It increases calcium influx and neuronal firing rate in the hippocampus (PubMed:33631299). Is able to insert itself into lipid bilayers, altering physicochemical properties of artificial membranes, and forming cation-selective ion channels (PubMed:24583269). In vitro, has the ability to induce platelet aggregation, platelet granules secretion and release of ATP (PubMed:11696010). In contrast to canatoxin, another urease from C.ensiformis, is not lethal to mice when intraperitoneally injected (PubMed:11696010).

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Images

Anti-UREASE (Jack Bean) (RABBIT) Antibody Biotin Conjugated - Background

Urease is a protein that is commonly secreted from the bacterium H. Pylori and is integral to the immune response within the gastric system. Urease carries out a key enzymatic reaction in converting urea into free ammonia and carbonic acid. Urease is commonly derived from the Jack Bean plant in scientific research as the amino acid sequences are highly conserved between species and it is an abundant source of the protein. Anti-Urease Antibody is ideal for investigators in Immunology, Enzymology, and Cell Biology research.