

Datasheet for 200-4182S**Urease Antibody****Overview**

Description:	Anti-Urease (Jack Bean) (RABBIT) Antibody - 200-4182S
Item No.:	200-4182S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Jack Bean
Host Species:	Rabbit

Product Details

Background:	Urea hydrolase involved in nitrogen recycling from ureide, purine, and arginine catabolism. Urease catalyzes the hydrolysis of urea to produce ammonia and carbamate (ammonia and carbonic acid). Ureases are found in numerous bacteria, fungi, algae, invertebrates, plants, in soils, as a soil enzyme. Due to the catalytic activity producing ammonia the pH of the environment increases. Ureases, when bacterial, can be a mode for the pathogens of many medical conditions such as hepatic encephalopathy, hepatic coma, urinary stones, and peptic ulcers. Urea is found naturally in the environment as well as artificially introduced. Anti-Urease antibody is ideal for researchers interested in ecosystems, microbes, and gut bacteria.
Synonyms:	rabbit anti-Urease Antibody, Urea Amidohydrolase antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UREA_CANEN
Reactivity:	Jack Bean
Immunogen Type:	Native Protein
Immunogen:	Urease [Jack Bean]

Purity/Specificity: Anti-Urease 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-Rabbit Serum as well as purified and partially purified Urease [Jack Bean]. Cross reactivity against Urease from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P07374](#)
- [NCBI - AAA83831.1](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-Urease Antibody has been tested in western blot and suitable against 1.0 ug of Urease [Jack Bean] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:15,000 to 1:60,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:20,000

IP: 1:100

WB: 1:500 - 1:5,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

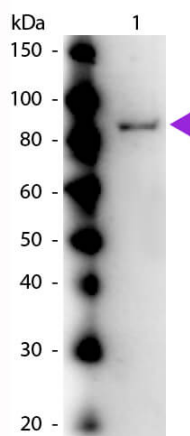
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Urease (Jack Bean) Antibody.
 Lane 1: Urease (Jack Bean). Load: 50 ng per lane. Primary antibody: Urease primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 90 kDa, 90 kDa for Urease.

References

- Ramlau R et al. Safety of unconventional antibody-drug conjugate L-DOS47 in a phase I/II monotherapy study targeting advanced NSCLC. *Front Oncol.* (2025)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.