

Anti-URICASE (Bacillus species) (GOAT) Antibody Biotin Conjugated - 200-106-092S
Code: 200-106-092S

Size: 25 µL

Product Description: Anti-URICASE (Bacillus species) (GOAT) Antibody Biotin Conjugated - 200-106-092S

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

PhysicalState: Liquid (sterile filtered)

Label	Biotin
Host	Goat
Gene Name	ABC3735
Species Reactivity	Bacillus species
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	goat anti-uricase antibody, biotin conjugated goat anti-uricase antibody, Urate oxidase antibody, Factor-independent urate hydroxylase
Application Note	Anti-Uricase Antibody has been assayed against 1.0 ug of Uricase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature.
Background	Uricase is a peroxisomal enzyme that catalyzes the conversion of urea to allantoin. Uricase performs this action by cleaving the purine ring of uric acid rendering it much more soluble within the body for excretion. Uricase within the Bacillus species is of high importance due to its high activity and thermostability over a wide range of pH's. Anti-Uricase Antibody is ideal for investigators in Cell Biology and Microbiology research.
Purity And Specificity	Anti-Uricase 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-Goat Serum as well as purified and partially purified Uricase [Bacillus species]. Cross reactivity against Uricase from other sources is unknown.
Assay Dilutions	User Optimized
ELISA	1:1,000 - 1:2,500
Western Blot	1:500 - 1:1,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Uricase [Bacillus species]
General Reference	X W Wu, C C Lee, D M Muzny, and C T Caskey. "Urate oxidase: primary structure and evolutionary implications." Proc Natl Acad Sci U S A. 1989 December; 86(23): 9412-9416. Pollyana Pfrimer, Lidia Maria Pepe de Moraes, Alexandro Sobreira Galdino, et. al. "Cloning, Purification, and Partial Characterization of Bacillus subtilis Urate Oxidase Expressed in Escherichia coli." J Biomed Biotechnol. 2010.

Related Products

100-101-092	Anti-URICASE (Bacillus species) (GOAT) Antibody - 100-101-092
B304	NORMAL GOAT SERUM (NGS) - B304
BSA-30	BOVINE SERUM ALBUMIN 30% Solution - BSA-30
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

Related Links

UniProtKB - Q5WBJ3

<http://www.uniprot.org/uniprot/Q5WBJ3>

NCBI - YP_177228.1

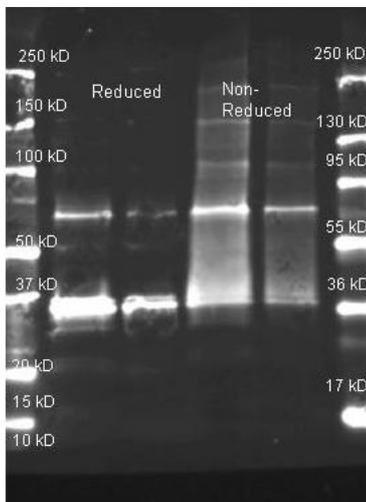
http://www.ncbi.nlm.nih.gov/protein/YP_177228.1

GeneID - 3202700

Images

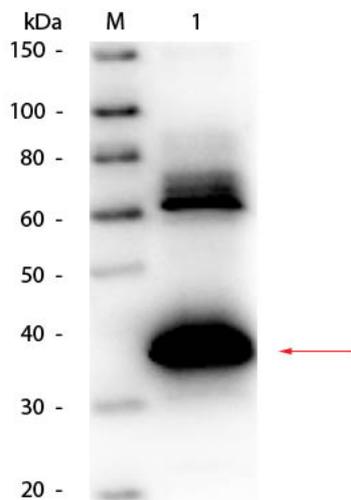
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Rockland Goat anti Uricase antibody was used to detect purified Uricase under reducing and non-reducing conditions. Samples of ~1 and 0.25 ug of protein per lane were run by SDS-PAGE and reduced samples of purified Uricase contained 4% BME and were boiled for 5 minutes. Protein was transferred to nitrocellulose and probed with Rockland Goat anti Uricase (200-101-092 lot 6732 1:5K in MB-0070, ON 4 C). Primary antibody was detected with Rockland Dylight 649 conjugated Donkey anti Goat (605-743-125 1:10K 1.5 hr RT in MB-070 and imaged on the BioRad VersaDoc imaging system.



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Western Blot of Goat anti-Uricase Antibody (Bacillus Species) Biotin Conjugated. Lane 1: Uricase (Bacillus). Load: 50 ng per lane. Primary antibody: Goat anti-Uricase Antibody (Bacillus Species) Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 39 kDa, 39 kDa for Uricase.



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