

Datasheet for 600-901-NG7

Aspergillus flavus uricase Antibody

Overview

Description:	Anti-Aspergillus flavus uricase (Chicken) Antibody - 600-901-NG7
Item No.:	600-901-NG7
Size:	50 µg
Applications:	ELISA, WB
Host Species:	Chicken

Product Details

Background:	Aspergillus flavus uricase (Rasburicase) is currently used for the treatment of gout and hyperuricemia occurring in tumor lysis syndrome. Rasburicase, sold under the brand name Elitek in the US and Fasturtec in the EU, is a medication that helps to clear uric acid from the blood. It is a recombinant version of urate oxidase, an enzyme that metabolizes uric acid to allantoin. Urate oxidase is known to be present in many mammals but does not naturally occur in humans. The concentration of uric acid in human serum is 1.5–6.0 mg/dl for women and 2.5–7.0 mg/dl for men. Any increase in the catabolism of purines or decrease in uric acid excretion leads to build up of uric acid in the form of monosodium urate crystals in joints or soft tissues. Moreover, hyperuricemia is also observed tumor lysis syndrome (TLS) and is caused by massive tumor cell lysis followed by catabolism of the nucleic acids to uric acid after chemotherapeutic treatment.
Synonyms:	Chicken Anti-Rasburicase Antibody, Chicken Anti-Aspergillus flavus uricase Antibody
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	uaZ
Immunogen Type:	Recombinant Protein
Immunogen:	Recombinant Aspergillus flavus uricase
Purity/Specificity:	Chicken Anti-Aspergillus flavus uricase Antibody has been IgY affinity purified using sepharose resins with immobilized Aspergillus flavus uricase.

Relevant Links:

- [UniProKB - Q00511](#)

Application Details

Tested Applications: ELISA, WB**Application Note:** Affinity purified chicken polyclonal Anti-Aspergillus flavus uricase antibodies have been tested for use in Western Blot and ELISA. This antibody recognizes structured uricase and will work in western blot when the protein are either denatured or in its native form. Although not tested, this antibody being affinity-purified, polyclonal raised using whole A. flavus uricase immunized to chicken could be useful in detection of uricases from Aspergillus spp that share sequence homologies more than 80%. Specific conditions for reactivity should be optimized by the end user.**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.**ELISA:** User Optimized**WB:** User Optimized

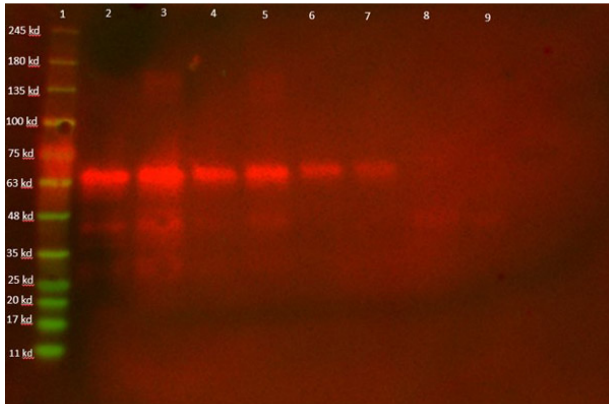
Formulation

Physical State: Liquid (sterile filtered)**Concentration:** 0.55 mg/mL by UV absorbance at 280 nm**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**Preservative:** None**Stabilizer:** None

Shipping & Handling

Shipping Condition: Wet Ice**Storage Condition:** Store vial at 2-8° C. Dilute only prior to immediate use.**Expiration:** Expiration date is six (6) months from date of receipt.

Images



Western Blot

Western Blot using GST-Aspergillus flavus Uricase to measure Anti-Aspergillus flavus uricase activity.

E. coli Asparaginase control is a His-tagged Asparaginase. Lane 1: Molecular Weight Ladder (p/n MB-210-0500).

Loading Buffer: Lanes 2, 4, and 6: Recombinant GST-Uricase reduced.

Lanes 3, 5, 7: Recombinant GST-Uricase non-reduced.

Lane 8: E. coli Asparaginase reduced.

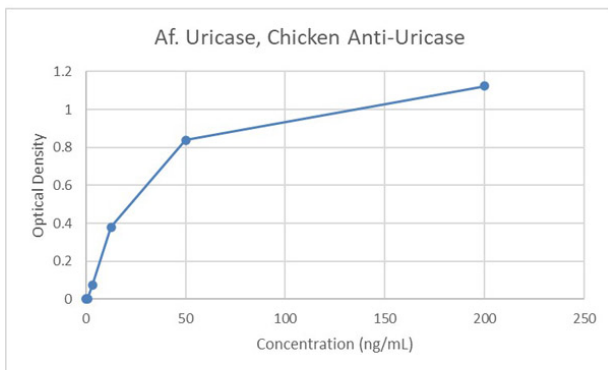
Lane 9: E. coli Asparaginase non-reduced.

Protein Load:

Lanes 2-3, 8-9: 200ug. Lanes 4-5: 50ug. Lanes 6-7: 10ug.

Primary Antibody: Chicken Anti-Aspergillus flavus uricase Antibody at concentration 10ug/mL for 2 hours at ambient temperature.

Secondary Antibody: Rabbit Anti-Chicken IgG (H&L) Antibody Peroxidase Conjugated (p/n 603-4302) at 1:5000 for 1 hour at ambient temperature.



ELISA

Chicken Anti-Aspergillus flavus Uricase activity. Each well was coated in duplicate with 100ng/well of Aspergillus flavus uricase. The wells were blocked with 3% fish gel. The starting dilution of Chicken Anti-Aspergillus flavus uricase Antibody was 200ng/well with 4-fold dilution. The secondary antibody, Rabbit Anti-Chicken IgG (H&L) Antibody Peroxidase Conjugated (p/n 603-4302) with 1:5,000 dilution was used to detect bound chicken IgY.

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.