

Datasheet for 200-406-089-0100

## Dextranase (Penicillium Species) Antibody Biotin Conjugated

### Overview

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Dextranase (Penicillium species) (RABBIT) Antibody Biotin Conjugated - 200-406-089-0100 |
| <b>Item No.:</b>     | 200-406-089-0100                                                                             |
| <b>Size:</b>         | 100 µg                                                                                       |
| <b>Applications:</b> | ELISA, WB                                                                                    |
| <b>Reactivity:</b>   | Penicillium                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                       |

### Product Details

|                      |                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Anti-Dextranase antibody is a transferase enzyme which catalyzes the synthesis of dextran by engaging in the endohydrolysis of 1, 6 alpha-D-glucosidic linkages in dextran. Belonging to the glycosyl hydrolase 49 family, Anti-Dextranase antibody is ideal for researchers interested in Metabolism and Signal Transduction research. |
| <b>Synonyms:</b>     | rabbit anti-Dextranase Antibody biotin Conjugation, biotin Conjugated rabbit anti-Dextranase Antibody, dextranase, Alpha-1,6-glucan-6-glucanohydrolase, DEX                                                                                                                                                                             |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate:</b>    | Biotin                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                     |

### Target Details

|                        |                                         |
|------------------------|-----------------------------------------|
| <b>Gene Name:</b>      | DEX                                     |
| <b>Reactivity:</b>     | Penicillium                             |
| <b>Immunogen Type:</b> | Native Protein                          |
| <b>Immunogen:</b>      | Dextranase [Penicillium species]<br>DEX |

**Purity/Specificity:** Anti-Dextranase 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 Dextranase [Penicillium species]. Cross reactivity against Dextranase from other sources is unknown.

**Relevant Links:**

- [UniProtKB - P48845](#)
- [NCBI - AAB47720.1](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-Dextranase Biotin Antibody has been tested by ELISA and western blot and is assayed against 1.0 ug of Dextranase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 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 1:3,000 to 1:14,000 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:** 1:2,000 - 1:10,000

**IP:** 1:100

**WB:** 1:500 - 1:5,000

## Formulation

**Physical State:** Lyophilized

**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:** 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

**Reconstitution Volume:** 100 µL

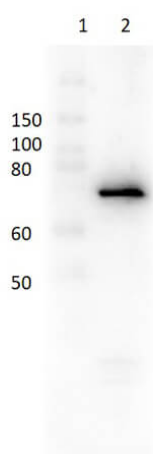
**Reconstitution Buffer:** Restore with deionized water (or equivalent)

## Shipping & Handling

**Shipping Condition:** Ambient

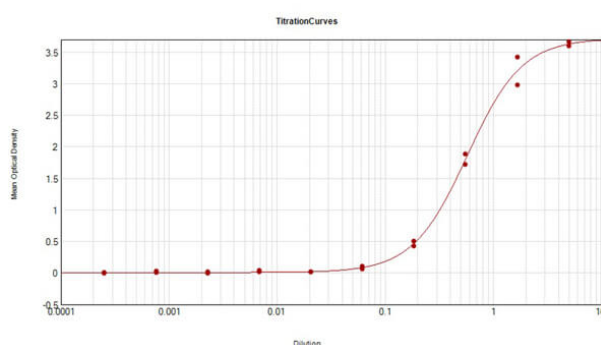
|                           |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Condition:</b> | 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. |
| <b>Expiration:</b>        | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Images



### Western Blot

Western Blot of Anti-Dextranase Antibody Biotin Conjugated. Lane 1: Molecular Weight Marker. Lane 2: Dextranase. Primary Antibody: Rabbit Anti-Dextranase Biotin Conjugate at 1:1000 overnight at 2-8°C. Secondary Antibody: Streptavidin-HRP (p/n S000-03) at 1:40,000 for 30 min at RT. Block: BlockOut Buffer (p/n MB-073). Expected MW: ~66kDa.



### ELISA

ELISA Results of Rabbit Anti-Dextranase Antibody Biotin Conjugated tested against purified Dextranase protein. Each well was coated in duplicate with 1.0 µg of Dextranase. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugate Stabilizer (p/n MB-076), Streptavidin-HRP conjugated (p/n S000-03), and TMB substrate (p/n TMBE-1000).

## Disclaimer

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