

Datasheet for 200-901-Z56**Beta-Galactosidase Antibody****Overview**

Description:	Anti-Beta Galactosidase (CHICKEN) Antibody - 200-901-Z56
Item No.:	200-901-Z56
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	b-GAL
Host Species:	Chicken

Product Details

Background:	Beta-galactosidase (beta-gal), an inducible enzyme that catalyzes the hydrolysis of lactose and other beta-galactosidases into monosaccharides, is a product of the LacZ operon, and is a homo-tetrameric protein consisting of four identical subunits of approximately 114 kDa each. The enzyme is commonly used as a reporter gene in molecular biology to assess the efficiency of transfection.
Synonyms:	beta-Galactosidase Antibody, Beta-galactosidase, Lactase, Beta-gal
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	lacZ
Reactivity:	b-GAL
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-beta-gal antibody was prepared from chicken egg fractions produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of E. coli beta-gal.

Purity/Specificity: Anti-beta-Galactosidase Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with beta-Galactosidase from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q8FKG6](#)
- [GeneID - 1036228](#)
- [NCBI - NP_752394](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-beta-Galactosidase Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 116 kDa in Western Blots of specific cell lysates and tissues.

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

ELISA: 1:10,000

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

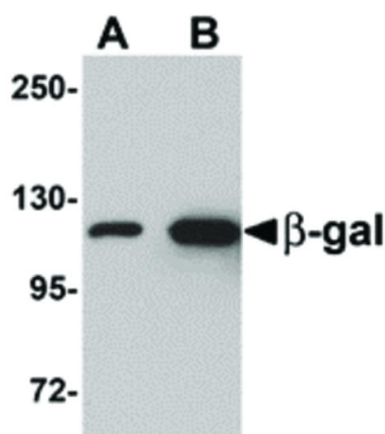
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.

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

Images



Western Blot

Western Blot of b-gal antibody. Lane 1: 5 ng of b-gal with b-gal antibody at 1 μ g/mL. Lane 2: 25 ng of b-gal with b-gal antibody at 1 μ g/mL. Load: 35 μ g per lane. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 116 kDa, 120 kDa for b-gal. Other band(s): b-gal splice variants and isoforms.

Disclaimer

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