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Datasheet for 200-901-Z54

Beta Actin Antibody

Overview

Description:	Anti-Beta Actin (CHICKEN) Antibody - 200-901-Z54
Item No.:	200-901-Z54
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	Actins are highly conserved proteins that are involved in cell motility, structure and integrity, processes that are crucial for tissue development and the development of organism. The actin cytoskeleton is one of the principal drivers of cell motility and is capable of responding to complex signaling cascades. Recent evidence suggests that it may play key roles in regulating apoptosis and aging. Beta actin is one of six different actin isoforms which have been identified. Like GAPDH, beta-actin is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.
Synonyms:	Beta-actin Antibody, BRWS1, PS1TP5BP1, Actin, cytoplasmic 1, Beta-actin
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	ACTB
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Beta-actin antibody was prepared from chicken egg fractions produced by repeated immunizations with a 16 amino acid synthetic peptide from near the C-terminus of human beta-actin.

Purity/Specificity:	Anti-Beta-actin Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with Beta-actin from other sources has not been determined.
Relevant Links:	• UniProtKB - P60709 • GeneID - 60 • NCBI - AAH02409

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Beta-actin 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 42 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:	1:10,000-1:20,000
WB:	1 - 2 µg/mL

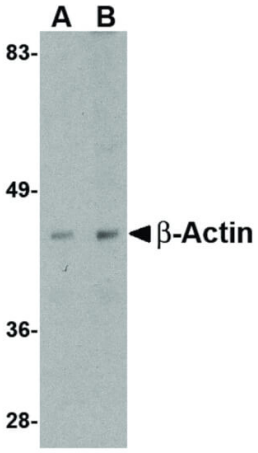
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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 beta-actin antibody. Lane 1: HeLa cell lysate with beta-actin antibody at 1 µg/mL. Lane 2: HeLa cell lysate with beta-actin antibody at 2 µg/mL. Load: 35 µg 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: 41.7 kDa, 46 kDa for beta-actin. Other band(s): beta-actin splice variants and isoforms.

Disclaimer

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