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Datasheet for 600-401-Z64

BICD2 Antibody

Overview

Description:	Anti-BICD2 (RABBIT) Antibody - 600-401-Z64
Item No.:	600-401-Z64
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	BICD2 is the second human homolog discovered to the Drosophila Bicaudal-D protein that forms part of the cytoskeleton and mediates the correct sorting of mRNAs for oocyte- and axis-determining factors during oogenesis. Similar to the highly homologous protein BICD1, BICD2 can bind to dynein-dynactin complex, primarily through the dynamitin subunit of dynactin. The C-terminus of BICD2 targets the protein to the Golgi complex while the N-terminal domain of BICD2 co-immunoprecipitates with cytoplasmic dynein, suggesting BICD2 plays a role in the dynein-dynactin interaction on the surface of membranous organelles. Mice engineered to overexpress the BICD2 amino terminal domain in neurons developed amyotrophic lateral sclerosis (ALS)-like features such as Golgi fragmentation, neurofilament swelling in proximal axons, etc., suggesting that impaired dynein/dynactin function may explain some of the pathological features observed in ALS patients.
Synonyms:	BICD2 Antibody, SMALED2, bA526D8.1, KIAA0699, Protein bicaudal D homolog 2, Bic-D 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BICD2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BICD2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the internal region of human BICD2.
Purity/Specificity:	Anti-BICD2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This BICD2 antibody will not cross-react with BICD1.
Relevant Links:	• UniProtKB - Q8TD16 • GeneID - 23299 • NCBI - CAI41013

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-BICD2 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 94 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

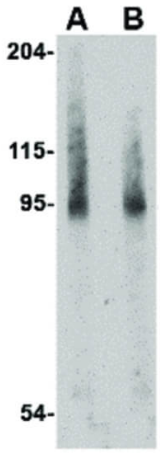
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

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 BICD2 antibody. Lane A: A549 cell lysate at 1 µg/mL. Lane B: A549 cell lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 93.5 kDa, ~95 kDa for BICD2.

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