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Datasheet for ABIN6990934  
**anti-BICD2 antibody (AA 300-350)**

### Overview

Quantity:	0.1 mg
Target:	BICD2
Binding Specificity:	AA 300-350
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BICD2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

### Product Details

Immunogen:	BICD2 antibody was raised against a 14 amino acid synthetic peptide from near the center of human BICD2. The immunogen is located within amino acids 300 - 350 of BICD2.
Isotype:	IgG
Specificity:	This BICD2 antibody will not cross-react with BICD1.
Purification:	BICD2 Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	BICD2
Alternative Name:	BICD2 ( <a href="#">BICD2 Products</a> )
Background:	BICD2 Antibody: BICD2 is the second human homolog discovered to the Drosophila Bicaudal-D

## Target Details

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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.

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Molecular Weight: Predicted: 94 kDa

Observed: 100 kDa

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Gene ID: 23299

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UniProt: [Q8TD16](#)

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Pathways: [Maintenance of Protein Location](#)

## Application Details

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Application Notes: BICD2 antibody can be used for detection of BICD2 by Western blot at 1 - 2  $\mu$ g/mL.

Antibody validated: Western Blot in human samples. All other applications and species not yet tested.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: BICD2 Antibody is supplied in PBS containing 0.02 % sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Handling

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Storage: -20 °C, 4 °C

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Storage Comment: BICD2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.