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# BICD2 (m): 293T Lysate: sc-118810

## BACKGROUND

BICD2 [bicaudal D homolog 2 (*Drosophila*)], whose alternative names include protein bicaudal D homolog 2, Bic-D 2, KIAA0699 or bA526D8.1, is one of 2 human homologs of *Drosophila* BICD and consists of 824 amino acids. BICD2 is ubiquitously expressed and localizes to the Golgi apparatus, cytoplasm and cytoskeleton. BICD2 colocalizes with Rab 6A on the *trans*-Golgi network (TGN) and on cytoplasmic vesicles, and is known to recruit the dynein-dynactin motor complex to regulate coat complex coatamer protein 1 (COPI)-independent Golgi-to-endoplasmic reticulum vacuolar transport. BICD2 is phosphorylated by NEK9 *in vitro*, and interacts with Dynactin 2. Existing as two isoforms due to alternative splicing events, BICD2 is encoded by a gene mapping to human chromosome 9.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Bcd2 (mouse) mapping to 13 A5.

## PRODUCT

BICD2 (m): 293T Lysate represents a lysate of mouse BICD2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

BICD2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BICD2 antibodies. Recommended use: 10-20 µl per lane.

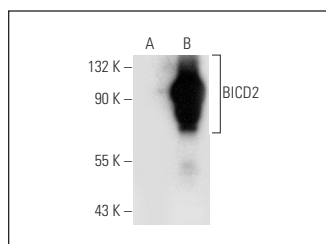
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

BICD2 (E-12): sc-393631 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse BICD2 expression in BICD2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



BICD2 (E-12): sc-393631. Western blot analysis of BICD2 expression in non-transfected: sc-117752 (A) and mouse BICD2 transfected: sc-118810 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.