## BICD2 Antibody

**Subcategory:** Rabbit Polyclonal Antibody
**Cat. No.:** 253902
**Unit:** 0.1 mg

**Description:**
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. This BICD2 antibody will not cross-react with BICD1.

**Isotype:** Rabbit Ig
**Applications:** E, WB
**Species Reactivity:** H, M, R
**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.
**Alternate Names:** BICD2 ; Bicaudal D homolog 2
**Accession No.:** CAI41013

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within human BICD2.
**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.