

Dynactin 3 (C-14): sc-162754

BACKGROUND

Dynactin, a multisubunit complex, is a cytoplasmic Dynein-interacting protein that functions as the "receptor" for the Dynein microtubule motor. Dynactin/Dynein binding may be required for most, if not all, cytoplasmic Dynein-driven activities and is thought to contribute to the functional diversity of Dynein. Enriched in neurons, Dynactin also binds to microtubules and has been shown to function in diverse processes, including organelle transport, formation of the mitotic spindle and cytokinesis. Dynactin 3, also known as Dynactin complex subunit 22 kDa subunit or p22, is a 186 amino acid subunit of the Dynactin complex. Dynactin 3 localizes to punctate cytoplasmic structures, to the centrosome during interphase and to the kinetochores and spindle poles throughout mitosis. Ubiquitously expressed, Dynactin 3 is found at highest levels in pancreas and muscle.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DCTN3 (human) mapping to 9p13.3; Dctn3 (mouse) mapping to 4 A5.

SOURCE

Dynactin 3 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Dynactin 3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162754 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Dynactin 3 (C-14) is recommended for detection of Dynactin 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other Dynactin family members.

Dynactin 3 (C-14) is also recommended for detection of Dynactin 3 in additional species, including bovine.

Suitable for use as control antibody for Dynactin 3 siRNA (h): sc-92863, Dynactin 3 siRNA (m): sc-143203, Dynactin 3 shRNA Plasmid (h): sc-92863-SH, Dynactin 3 shRNA Plasmid (m): sc-143203-SH, Dynactin 3 shRNA (h) Lentiviral Particles: sc-92863-V and Dynactin 3 shRNA (m) Lentiviral Particles: sc-143203-V.

Molecular Weight of Dynactin 3: 22 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.