

Dynactin p150 (G-18): sc-9804

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 Dynein's functional diversity. Dynactin, enriched in neurons, also binds to microtubules and has been shown to function in diverse processes, including organelle transport, formation of the mitotic spindle and cytokinesis. Dynactin subunits include p22, p50, p62, p150, (also designated Glued), and Arp1.

CHROMOSOMAL LOCATION

Genetic locus: DCTN1 (human) mapping to 2p13.1; Dctn1 (mouse) mapping to 6 C3.

SOURCE

Dynactin p150 (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Dynactin 1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-9804 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Dynactin p150 (G-18) is recommended for detection of the p150 isoform of Dynactin 1 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), immunohistochemistry (including paraffin-embedded sections) (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 the p135 isoform.

Dynactin p150 (G-18) is also recommended for detection of the p150 isoform of Dynactin 1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dynactin 1 siRNA (h): sc-43317, Dynactin 1 siRNA (m): sc-43318, Dynactin 1 shRNA Plasmid (h): sc-43317-SH, Dynactin 1 shRNA Plasmid (m): sc-43318-SH, Dynactin 1 shRNA (h) Lentiviral Particles: sc-43317-V and Dynactin 1 shRNA (m) Lentiviral Particles: sc-43318-V.

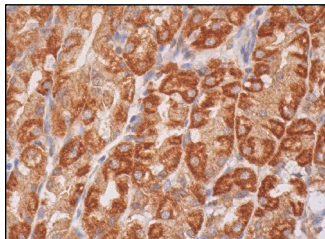
Molecular Weight of Dynactin p150: 150 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or rat brain extract: sc-2392.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Dynactin p150 (G-18): sc-9804. Immunoperoxidase staining of formalin fixed, paraffin-embedded human upper stomach tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Payne, C., Rawe, V., Ramalho-Santos, J., Simerly, C. and Schatten, G. 2003. Preferentially localized Dynein and perinuclear Dynactin associate with nuclear pore complex proteins to mediate genomic union during mammalian fertilization. *J. Cell Sci.* 116: 4727-4738.
2. Lee, S.J., Chae, C. and Wang, M.M. 2009. p150/Glued modifies nuclear estrogen receptor function. *Mol. Endocrinol.* 23: 620-629.

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.



Try **Dynactin 1 (A-2): sc-365274** or **Dynactin 1 (E-6): sc-271166**, our highly recommended monoclonal alternatives to Dynactin p150 (G-18).