

Dynactin p62 (H-300): sc-25730

BACKGROUND

Dynactin is a multisubunit complex and a required cofactor for most, or all, of the cellular processes powered by the microtubule-based motor cytoplasmic dynein. Dynactin contains a short actin-related protein 1 (Arp1) filament with capZ at the barbed end and p62 at the pointed end. The p62 subunit is an integral component of 20 S dynactin with a highly conserved cysteine-rich motif that interacts directly with Arp1. Dynactin p62 has a punctate cytoplasmic distribution as well as centrosomal distribution typical of dynactin. In addition, Dynactin p62 is distributed in the nucleus at very high expression levels. Due to the structural composition of dynactin, the p62 subunit is implicated in Arp1 pointed-end binding and in linking dynein and dynactin to the cortical cytoskeleton.

REFERENCES

1. Schafer, D.A., et al. 1994. Ultrastructural analysis of the dynactin complex: an actin-related protein is a component of a filament that resembles F-actin. *J. Cell Biol.* 126: 403-412.
2. Bingham, J.B. and Schroer, T.A. 1999. Self-regulated polymerization of the actin-related protein Arp1. *Curr. Biol.* 9: 223-226.

CHROMOSOMAL LOCATION

Genetic locus: DCTN4 (human) mapping to 5q33.1; Dctn4 (mouse) mapping to 18 D3.

SOURCE

Dynactin p62 (H-300) is a rabbit polyclonal antibody raised against amino acids 161-460 of Dynactin p62 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.

APPLICATIONS

Dynactin p62 (H-300) is recommended for detection of Dynactin p62 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Dynactin p62 (H-300) is also recommended for detection of Dynactin p62 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dynactin p62 siRNA (h): sc-35232 and Dynactin p62 siRNA (m): sc-35233, Dynactin p62 shRNA Plasmid (h): sc-35232-SH, Dynactin p62 shRNA Plasmid (m): sc-35233-SH, Dynactin p62 shRNA (h) Lentiviral Particles: sc-35232-V and Dynactin p62 shRNA (m) Lentiviral Particles: sc-35233-V.

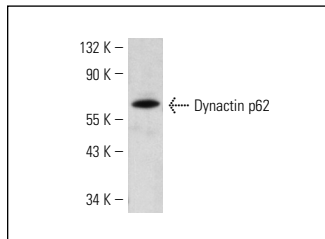
Molecular Weight of Dynactin p62: 62 kDa.

Positive Controls: Sol8 cell lysate: sc-2249, BC₃H1 cell lysate: sc-2299 or rat brain extract: sc-2392.

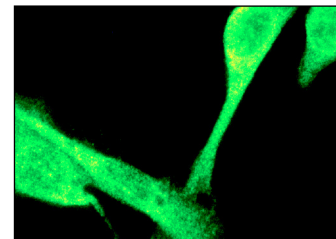
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Dynactin p62 (H-300): sc-25730. Western blot analysis of Dynactin p62 expression in Sol8 whole cell lysate.



Dynactin p62 (H-300): sc-25730. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic and nuclear localization.

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.

MONOS
Satisfaction
Guaranteed

Try **Dynactin p62 (H-4): sc-55603** or **Dynactin p62 (H-12): sc-55604**, our highly recommended monoclonal alternatives to Dynactin p62 (H-300).