

# Dynactin p62 (K-15): sc-12241

## 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 cyto-plasmic 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

Dynactin p62 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus 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.

Blocking peptide available for competition studies, sc-12241 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 p62 (K-15) 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 (K-15) is also recommended for detection of dynactin p62 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Dynactin p62 siRNA (h): sc-35232, 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.

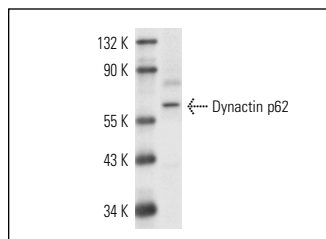
Molecular Weight of Dynactin p62: 62 kDa.

Positive Controls: mouse brain extract: sc-2253, BC<sub>3</sub>H1 cell lysate: sc-2299 or Sol8 cell lysate: sc-2249.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



Dynactin p62 (K-15): sc-12241. Western blot analysis of Dynactin p62 expression in mouse brain tissue extract.

## 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) or our catalog for detailed protocols and support products.

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Satisfaction  
Guaranteed

Try **Dynactin p62 (H-4): sc-55603** or **Dynactin p62 (H-12): sc-55604**, our highly recommended monoclonal alternatives to Dynactin p62 (K-15).