

Dynactin 6 (E-19): sc-87703

BACKGROUND

Dynactin is a multisubunit complex that functions as a binding partner 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. Dynactin 6, also known as Protein WS-3, is an evolutionarily conserved component of the pointed-end-binding subcomplex of the Dynactin shoulder complex. This cytoplasmic protein is ubiquitously expressed in all tissues, suggesting that its function is essential for all organs. The pointed-end-binding subcomplex also consists of Dynactin 5, Dynactin p62 and ACTR10. Dynactin 6, along with Dynactin p62 and Dynactin 5, is believed to function in the regulation of Dynactin-membranous cargo interactions.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DCTN6 (human) mapping to 8p12; Dctn6 (mouse) mapping to 8 A4.

SOURCE

Dynactin 6 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Dynactin 6 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-87703 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Dynactin 6 (E-19) is recommended for detection of Dynactin 6 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).

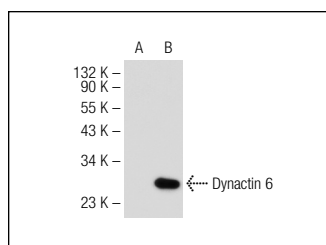
Dynactin 6 (E-19) is also recommended for detection of Dynactin 6 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dynactin 6 siRNA (h): sc-77642, Dynactin 6 siRNA (m): sc-143205, Dynactin 6 shRNA Plasmid (h): sc-77642-SH, Dynactin 6 shRNA Plasmid (m): sc-143205-SH, Dynactin 6 shRNA (h) Lentiviral Particles: sc-77642-V and Dynactin 6 shRNA (m) Lentiviral Particles: sc-143205-V.

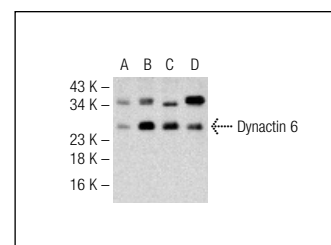
Molecular Weight of Dynactin 6: 21 kDa.

Positive Controls: Dynactin 6 (h): 293T Lysate: sc-113306, COLO 320DM cell lysate: sc-2226 or T24 cell lysate: sc-2292.

DATA



Dynactin 6 (E-19): sc-87703. Western blot analysis of Dynactin 6 expression in non-transfected: sc-117752 (A) and human Dynactin 6 transfected: sc-113306 (B) 293T whole cell lysates.



Dynactin 6 (E-19): sc-87703. Western blot analysis of Dynactin 6 expression in HeLa (A), WI 38 (B), COLO 320DM (C) and T24 (D) whole cell lysates.

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.