

anti- SPAST antibody

Product Information

Catalog No.:	FNab08156
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

ATP-dependent microtubule severing protein that specifically recognizes and cuts microtubules that are polyglutamylated(PubMed:19141076 PubMed:20530212). Preferentially recognizes and acts on microtubules decorated with short polyglutamate tails: severing activity increases as the number of glutamates per tubulin rises from one to eight, but decreases beyond this glutamylation threshold(By similarity). Severing activity is not dependent on tubulin acetylation or detyrosination(By similarity). Microtubule severing promotes reorganization of cellular microtubule arrays and the release of microtubules from the centrosome following nucleation(By similarity). It is critical for the biogenesis and maintenance of complex microtubule arrays in axons, spindles and cilia(By similarity). SPAST is involved in abscission step of cytokinesis and nuclear envelope reassembly during anaphase in cooperation with the ESCRT-III complex(By similarity). Recruited at the midbody, probably by IST1, and participates to membrane fission during abscission together with the ESCRT-III complex(By similarity). Recruited to the nuclear membrane by IST1 and mediates microtubule severing, promoting nuclear envelope sealing and mitotic spindle disassembly during late anaphase(By similarity). Required for membrane traffic from the endoplasmic reticulum(ER) to the Golgi and endosome recycling(By similarity). Recruited by IST1 to endosomes and regulates early endosomal tubulation and recycling by mediating microtubule severing(By similarity). Probably plays a role in axon growth and the formation of axonal branches(PubMed:18234839). Isoform 1: Involved in lipid metabolism by regulating the size and distribution of lipid droplets.

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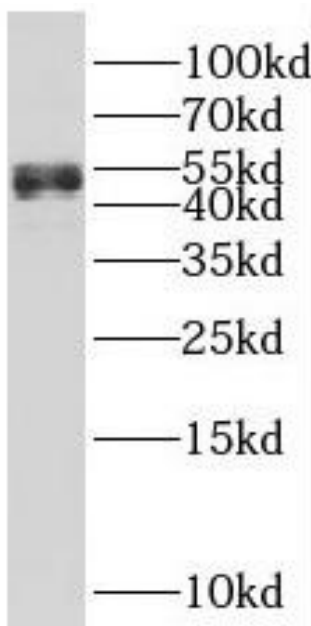
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Immunogen information

Immunogen: spastin
Synonyms: Kiaa1083, Spg4
Observed MW: 52 kDa
UniprotID : Q9QYY8

Application

Reactivity: Human, Mouse, Rat
Tested Application: ELISA, WB
Recommended dilution: WB: 1:500-1:2000
Image:



PC-3 cells were subjected to SDS PAGE followed by western blot with FNab08156(SPAST antibody) at dilution of 1:1000

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