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Spindly Rabbit pAb

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Catalog # AP57997

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96EA4
Reactivity	Rat
Predicted	Pig, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70172
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Protein Spindly
Epitope Specificity	401-500/605
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton, centrosome. Chromosome, centromere, kinetochore. Nucleus. Cytoplasm, cytoskeleton, spindle pole. Note=Localizes to the nucleus in interphase and to the kinetochore in early prometaphase. Relocalizes to the mitotic spindle pole before metaphase and is subsequently lost from the spindle poles after chromosome congression is completed. Removal of this protein from the kinetochore requires the dynein/dynactin complex.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The five integral families of plant hormones consists of auxins, cytokinins, giberellins (GAs), abscisic acid (ABA), and ethylene. Giberellins, which consist of over fifty family members, mediate shoot growth. In Arabidopsis, SPINDLY (SPY) negatively regulates GA signal transduction. ERA1 (enhanced response to absisic acid), which is identical to WIGGUM, controls floral and shoot apical meristem size and floral organ number in response to ABA. Ethylene is perceived by a family of five receptors, one of which is ETR1, whereas CTR1 is a negative regulator of the ethylene signal transduction pathway . Ethylene is also produced endogenously in Arabidopsis via a biosynthetic pathway, which is catalyzed by ACC synthase and ACC oxidase.

Additional Information

Gene ID	54908
Other Names	Protein Spindly {ECO:0000255|HAMAP-Rule:MF_03041}, hSpindly, Arsenite-related gene 1 protein, Coiled-coil domain-containing protein 99 {ECO:0000255|HAMAP-Rule:MF_03041}, Rhabdomyosarcoma antigen MU-RMS-40.4A, Spindle apparatus coiled-coil domain-containing protein 1

{ECO:0000255|HAMAP-Rule:MF_03041}, SPDL1
{ECO:0000255|HAMAP-Rule:MF_03041}

Dilution IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name SPDL1 {ECO:0000255|HAMAP-Rule:MF_03041}

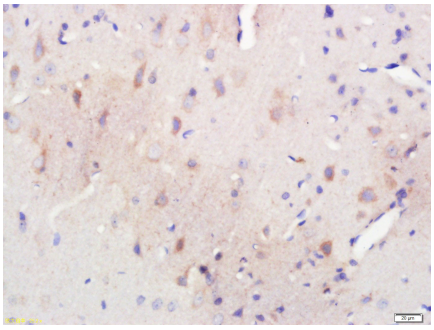
Function Required for the localization of dynein and dynactin to the mitotic kinetochore. Dynein is believed to control the initial lateral interaction between the kinetochore and spindle microtubules and to facilitate the subsequent formation of end-on kinetochore-microtubule attachments mediated by the NDC80 complex. Also required for correct spindle orientation. Does not appear to be required for the removal of spindle assembly checkpoint (SAC) proteins from the kinetochore upon bipolar spindle attachment (PubMed:17576797, PubMed:19468067). Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (PubMed:25035494). Plays a role in cell migration (PubMed:30258100).

Cellular Location Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Nucleus Cytoplasm, cytoskeleton, spindle pole. Note=Localizes to the nucleus in interphase and to the kinetochore in early prometaphase. Relocalizes to the mitotic spindle pole before metaphase and is subsequently lost from the spindle poles after chromosome congression is completed. Removal of this protein from the kinetochore requires the dynein/dynactin complex

Background

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Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Spindly Polyclonal Antibody, Unconjugated(AP57997) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.