



Rabbit Anti-Spindly antibody

SL2321R

Product Name:	Spindly
Chinese Name:	卷曲螺旋结构域蛋白99抗体
Alias:	Rrhabdomyosarcoma antigen protein MU RMS 40.4A; Arsenite related gene 1 protein; Arsenite-related gene 1 protein; CCDC 99; Ccdc99; Coiled coil domain containing 99; Coiled-coil domain-containing protein 99; hSpindly; Protein Spindly; rhabdomyosarcoma antigen MU RMS 40.4A; Rhabdomyosarcoma antigen MU-RMS-40.4A; SPDLY_HUMAN; SPDL1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	67kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Protein Spindly:401-500/605
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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 abscisic 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.

Function:

Required for the localization of dynein and dynactin to the mitotic kintochore. 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.

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.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Belongs to the Spindly family.

SWISS:

Q96EA4

Gene ID:

54908

Database links:

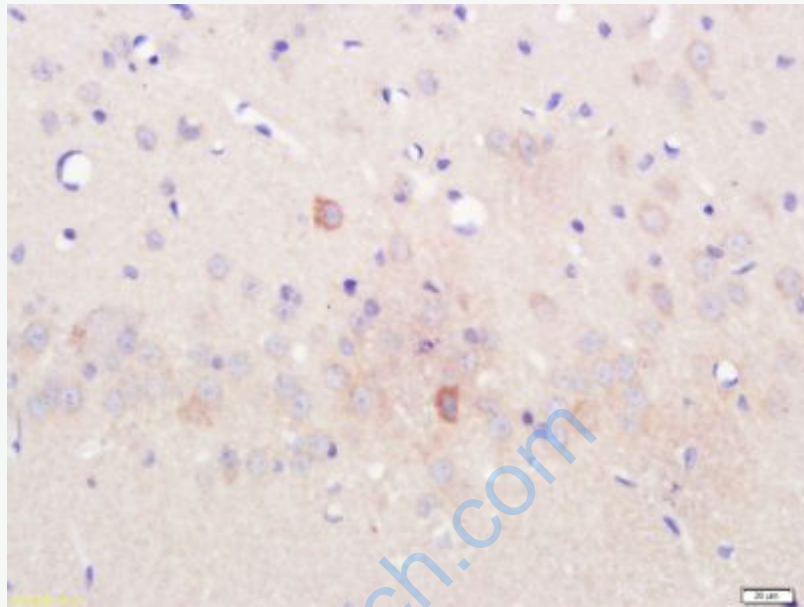
[Entrez Gene: 54908](#)Human

[SwissProt: Q96EA4](#)Human

[Unigene: 368710](#)Human

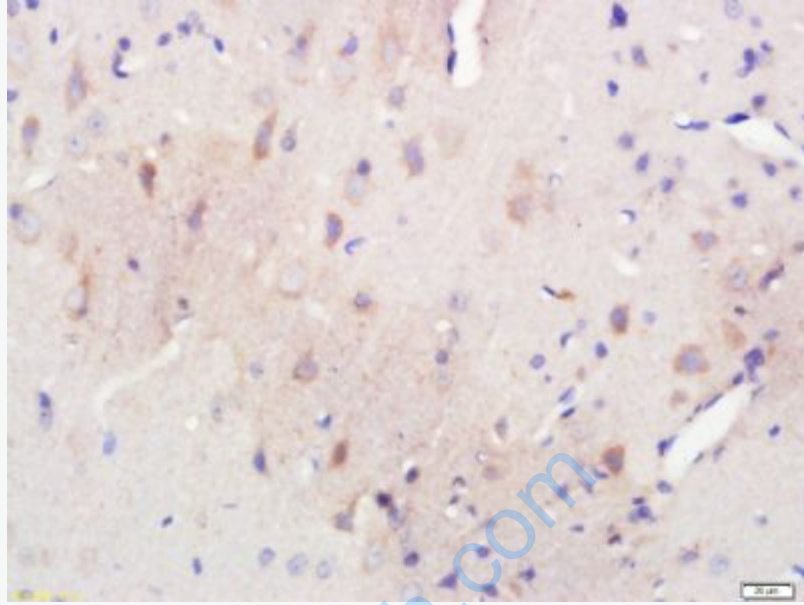
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

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°C for 20 min;
Incubation: Anti-Spindly Polyclonal Antibody, Unconjugated(SL2321R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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