

Rabbit Anti-MAP126 antibody

SL0717R

Product Name MAP126

Chinese Name 精子相关抗原 5 抗体

Alias Astrin; Deepest; hMAP 126; hMAP126; MAP 126; Mitotic spindle associated protein; Mitotic spindle associated protein p126; Mitotic spindle coiled coil related protein; SPAG 5; SPAG5; Sperm associated antigen 5; Sperm tail protein Spag 5; Sperm tail protein Spag5; SPAG5_HUMAN.

Research Area Cell biology Developmental biology Cyclin

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 134kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human SPAG5: 1101-1193/1193

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse)1M TBS(pH7.4) with 1% BSA,

Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed

[PubMed](#)

A novel gene product, hMAP126, interacts with p29 in the yeast two-hybrid assay. The subcellular distribution of hMAP126 was localized to the mitotic spindle and is phosphorylated by p34(cdc2) kinase. Human MAP126 is likely involved in the functional and dynamic regulation of mitotic spindles.

Function:

Essential component of the mitotic spindle required for normal chromosome segregation and progression into anaphase. Required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture. The astrin (SPAG5)-kinastrin (SKAP) complex promotes stable microtubule-kinetochore attachments.

Subunit:

Homodimer, with a globular head domain and a long stalk. Homooligomer; the globular head domains associate, resulting in aster-like structures. Binds to microtubules in the mitotic spindle. Interacts with DCLRE1B/Apollo. Part of an astrin (SPAG5)-kinastrin (SKAP) complex containing KNSTRN, SPAG5, PLK1, DYNLL1 and SGOL2. Interacts with KNSTRN.

Subcellular Location:

Cytoplasm. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Chromosome, centromere, kinetochore. Note=In a punctate pattern in interphase cells. During mitosis, detected at spindle poles during prophase, throughout the spindle in metaphase and anaphase, and at midzone microtubules in anaphase and telophase. Detected on kinetochores of chromosomes that have congressed. The astrin (SPAG5)-kinastrin (SKAP) complex localizes to the microtubule plus ends.

Tissue Specificity:

Highly expressed in testis. Detected at low levels in placenta, liver, pancreas, thymus and colon.

SWISS:

Q96R06

Gene ID:

10615

Database links:

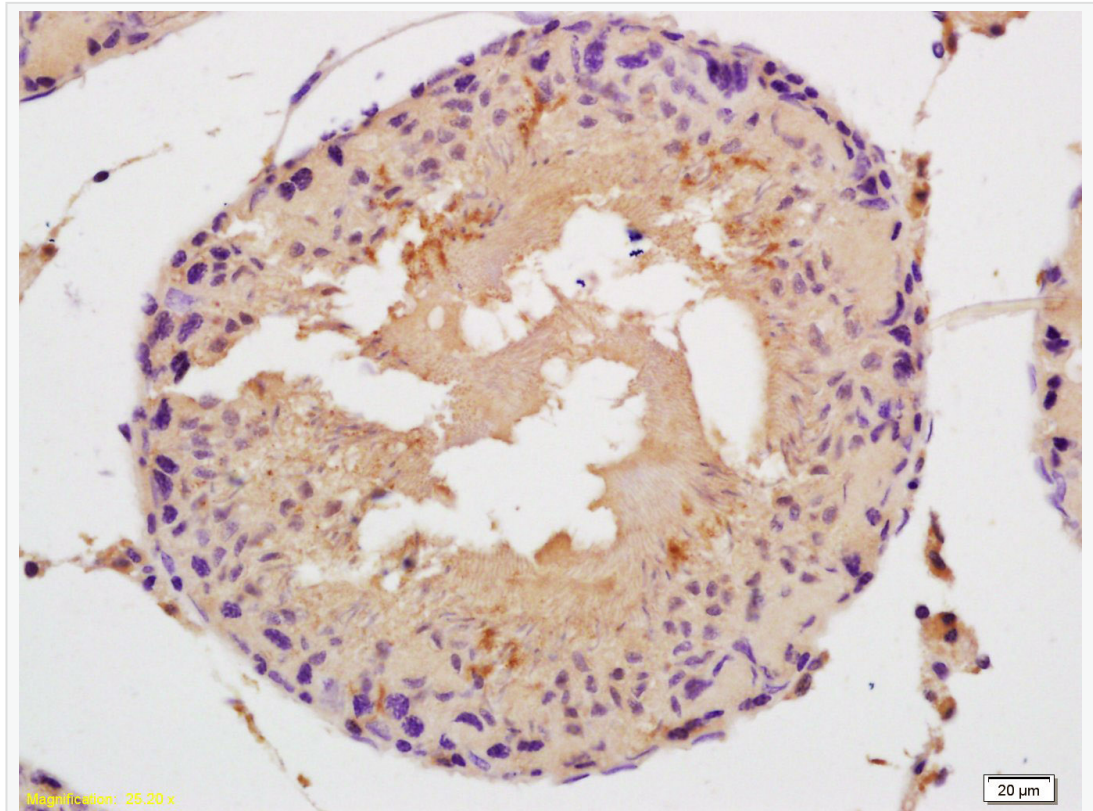
[Entrez Gene: 10615](#) Human

[SwissProt: Q96R06](#) Human

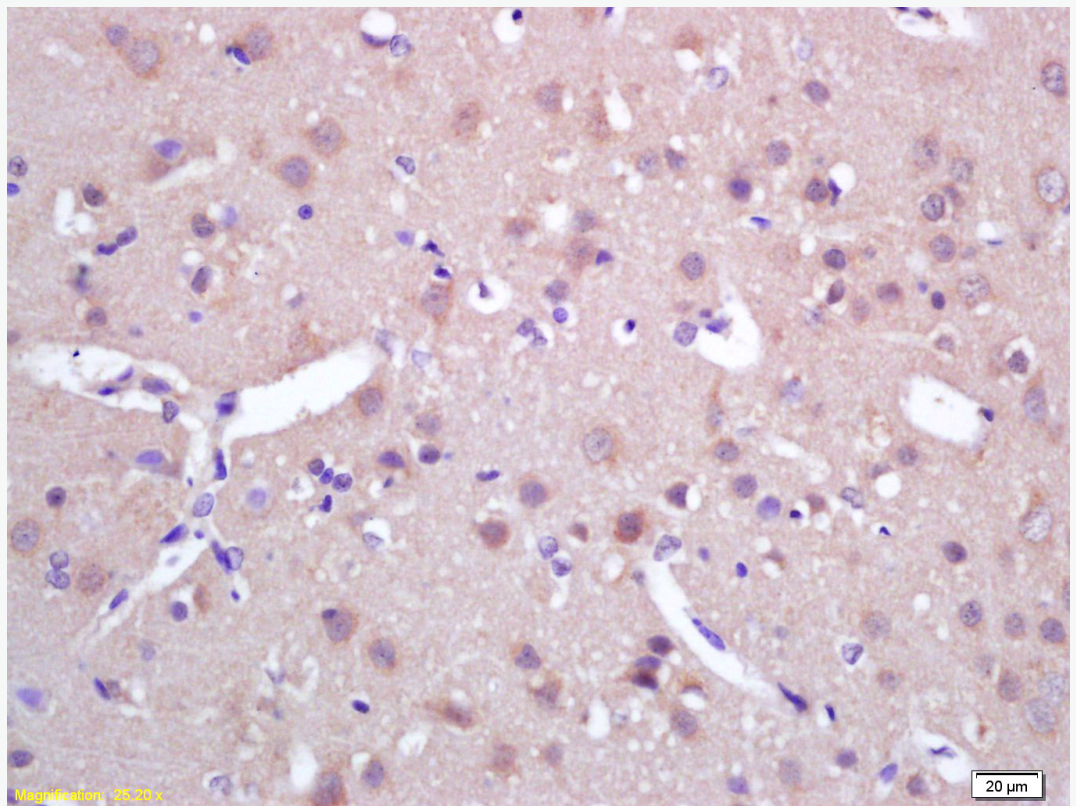
**Product
Detail**

Unigene: 16244 Human

**Product
Picture**



Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer
(Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse)1M, 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-SPAG5/MAP126/Astrin Polyclonal Antibody,
Unconjugated(SL0717R) 1:200, overnight at 4°C, followed by conjugation to the
secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

(Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse)1M, 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-SPAG5/MAP126/Astrin Polyclonal Antibody,

Unconjugated(SL0717R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining