

**Anti-MAP126 Antibody**  
Catalog # AP53823**Specification****Anti-MAP126 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q96R06</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134422

**Anti-MAP126 Antibody - Additional Information****Gene ID** 10615**Other Names**

Sperm-associated antigen 5; Astrin; Deepest; Mitotic spindle-associated protein p126; MAP126

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human MAP126. The exact sequence is proprietary.

**Dilution**

WB~~1/500 - 1/1000

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-MAP126 Antibody - Protein Information****Name** SPAG5**Function**

Essential component of the mitotic spindle required for normal chromosome segregation and progression into anaphase (PubMed: [11724960](http://www.uniprot.org/citations/11724960), PubMed: [12356910](http://www.uniprot.org/citations/12356910), PubMed: [27462074](http://www.uniprot.org/citations/27462074)). Required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture (PubMed: [17664331](http://www.uniprot.org/citations/17664331), PubMed: [27462074](http://www.uniprot.org/citations/27462074)). In complex with SKAP, promotes stable microtubule- kinetochore attachments. May contribute to the regulation of separase activity. May regulate AURKA localization to mitotic spindle, but not to

centrosomes and CCNB1 localization to both mitotic spindle and centrosomes (PubMed:<a href="http://www.uniprot.org/citations/18361916" target="\_blank">18361916</a>, PubMed:<a href="http://www.uniprot.org/citations/21402792" target="\_blank">21402792</a>). Involved in centriole duplication. Required for CDK5RAP2, CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (PubMed:<a href="http://www.uniprot.org/citations/26297806" target="\_blank">26297806</a>). In non-mitotic cells, upon stress induction, inhibits mammalian target of rapamycin complex 1 (mTORC1) association and recruits the mTORC1 component RPTOR to stress granules (SGs), thereby preventing mTORC1 hyperactivation-induced apoptosis (PubMed:<a href="http://www.uniprot.org/citations/23953116" target="\_blank">23953116</a>). May enhance GSK3B-mediated phosphorylation of other substrates, such as MAPT/TAU (PubMed:<a href="http://www.uniprot.org/citations/18055457" target="\_blank">18055457</a>).

### Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Chromosome, centromere, kinetochore. Midbody Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Cytoplasmic granule. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite Note=Colocalizes with PCM1 at centriolar satellites throughout the cell cycle (PubMed:26297806). 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 (PubMed:27462074). Efficient targeting to the mitotic spindle may depend upon phosphorylation by GSK3B. Detected on kinetochores of chromosomes that have congressed. The astrin (SPAG5)-kinastrin (SKAP) complex localizes to the microtubule plus ends (By similarity). In non-mitotic non-stressed cells, shows a microtubuli pattern. In arsenite-stressed cells, accumulates in stress granules {ECO:0000250, ECO:0000269|PubMed:26297806, ECO:0000269|PubMed:27462074}

### Tissue Location

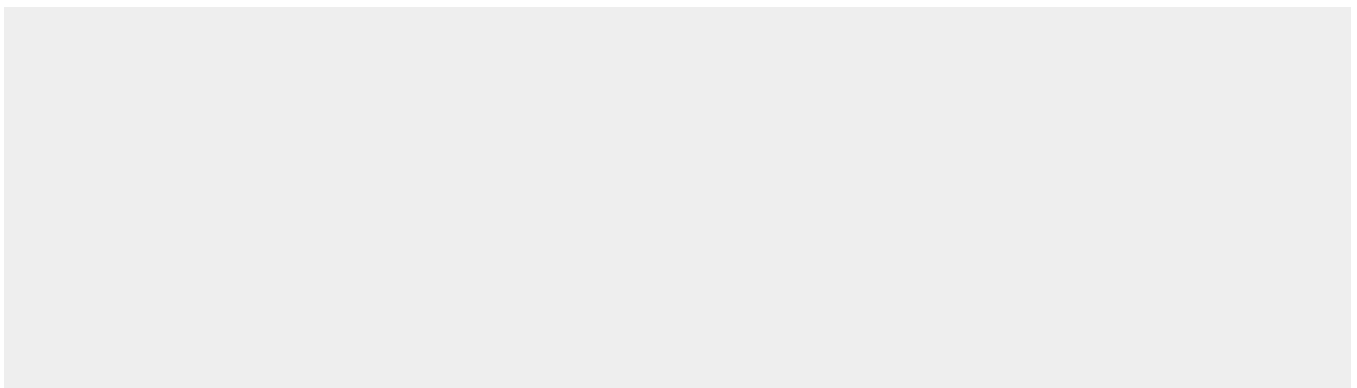
Highly expressed in testis. Detected at low levels in placenta, liver, pancreas, thymus and colon

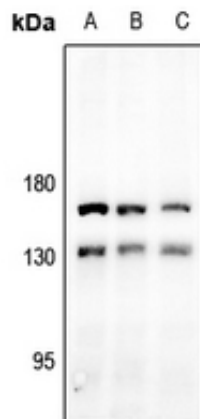
## Anti-MAP126 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-MAP126 Antibody - Images





Western blot analysis of MAP126 expression in Myla2059 (A), HEK293T (B), HuT78 (C) whole cell lysates.

#### **Anti-MAP126 Antibody - Background**

Rabbit polyclonal antibody to MAP126