

# **TRAF4AF1 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) **Catalog # AP56318** 

# **Specification**

# TRAF4AF1 Polyclonal Antibody - Product Information

IHC-P, IHC-F, IF, ICC, E Application

**Primary Accession** O9Y448 Reactivity Rat, Pig, Dog Host **Rabbit** Clonality **Polyclonal 35 KDa** 

Calculated MW **Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human TRAF4AF1

141-240/316 **Epitope Specificity** 

Isotype **Purity** 

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole. Note=Colocalizes with

microtubules around centrosomes in prophase and with the mitotic spindle at prometaphase and metaphase. From late prometaphase to anaphase, is highly concentrated on kinetochores. Located at the kinetochore-microtubule interface. The astrin (SPAG5)-kinastrin (SKAP) complex

localizes to the microtubule plus ends. Part of an astrin (SPAG5)-kinastrin (SKAP) complex containing KNSTRN, SPAG5, PLK1, DYNLL1 and SGOL2. Interacts with SPAG5. Directly binds to microtubules, although at

> relatively low affinity. Interacts with **CENPE**; this interaction greatly favors

microtubule-binding.

This product as supplied is intended for Important Note

research use only, not for use in human, therapeutic or diagnostic applications.

### TRAF4AF1 Polyclonal Antibody - Additional Information

**Gene ID 90417** 

**SUBUNIT** 

**Other Names** 

Small kinetochore-associated protein, SKAP, Kinetochore-localized astrin-binding protein, Kinastrin,



Kinetochore-localized astrin/SPAG5-binding protein, TRAF4-associated factor 1, KNSTRN (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=30767" target="blank">HGNC:30767</a>)

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class ="dilution\_E">E~~N/A</span>

#### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### Storage

Store at -20  $^{\circ}$ 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  $^{\circ}$ C.

# TRAF4AF1 Polyclonal Antibody - Protein Information

Name KNSTRN (HGNC:30767)

#### **Function**

Essential component of the mitotic spindle required for faithful chromosome segregation and progression into anaphase (PubMed:<a href="http://www.uniprot.org/citations/19667759" target="\_blank">19667759</a>). Promotes the metaphase-to-anaphase transition and is required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture (PubMed:<a href="http://www.uniprot.org/citations/19667759" target="\_blank">19667759</a>, PubMed:<a href="http://www.uniprot.org/citations/22110139" target="\_blank">22110139</a>). The astrin (SPAG5)-kinastrin (SKAP) complex promotes stable microtubule-kinetochore attachments (PubMed:<a href="http://www.uniprot.org/citations/21402792" target="\_blank">21402792</a>). Required for

href="http://www.uniprot.org/citations/21402792" target="\_blank">21402792</a>). Required for kinetochore oscillations and dynamics of microtubule plus-ends during live cell mitosis, possibly by forming a link between spindle microtubule plus-ends and mitotic chromosomes to achieve faithful cell division (PubMed:<a href="http://www.uniprot.org/citations/23035123"

 $target="\_blank">23035123</a>). May be involved in UV-induced apoptosis via its interaction with PRPF19; however, these results need additional evidences (PubMed:<a$ 

href="http://www.uniprot.org/citations/24718257" target=" blank">24718257</a>).

# **Cellular Location**

Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, microtubule organizing center. Note=Colocalizes with microtubules around centrosomes in prophase and with the mitotic spindle at prometaphase and metaphase. From late prometaphase to anaphase, is highly concentrated on kinetochores. Located at the kinetochore-microtubule interface. The astrin (SPAG5)-kinastrin (SKAP) complex localizes to the microtubule plus ends (PubMed:23035123)

# **Tissue Location**

Widely expressed, including in skin.

# **TRAF4AF1 Polyclonal Antibody - Protocols**

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



Tel: 858.875.1900 Fax: 858.875.1999



- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TRAF4AF1 Polyclonal Antibody - Images