

## TRAF4AF1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56318

## **Product Information**

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

Primary Accession
Reactivity
Rat, Pig, Dog
Host
Clonality
Polyclonal
Calculated MW
35438
Physical State
Liquid

Immunogen KLH conjugated synthetic peptide derived from human TRAF4AF1

Epitope Specificity 141-240/316

**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** 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.

**SUBUNIT** 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.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

## **Additional Information**

**Gene ID** 90417

Other Names Small kinetochore-associated protein, SKAP, Kinetochore-localized

astrin-binding protein, Kinastrin, Kinetochore-localized astrin/SPAG5-binding

protein, TRAF4-associated factor 1, KNSTRN (HGNC:30767)

**Dilution** IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-

10000

**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 KNSTRN ( HGNC:30767)

**Function** Essential component of the mitotic spindle required for faithful

chromosome segregation and progression into anaphase

(PubMed: 19667759). 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: 19667759, PubMed: 22110139). The astrin (SPAG5)-kinastrin (SKAP)

complex promotes stable microtubule-kinetochore attachments

(PubMed: <u>21402792</u>). 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: <u>23035123</u>). May be involved in UV-induced apoptosis via its interaction with PRPF19; however, these results need

additional evidences (PubMed:24718257).

**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.

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