

FAM29A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59361

Specification

FAM29A Polyclonal Antibody - Product Information

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

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

Q7Z4H7
Rat
Rabbit
Polyclonal
109 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human FAM29A/HAUS6

301-400/955

IgG

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 Cytoplasm, Cytoskeleton, Microtubule

SIMILARITY Belongs to the HAUS6 family.

SUBUNIT

Component of the HAUS augmin-like complex. The complex interacts with the gamma-tubulin ring complex and this interaction is required for spindle

assembly. Interacts with PLK1 and NEDD1.

Post-translational modifications Phosphorylated during mitosis.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

The human augmin complex (HAUS) is an evolutionarily conserved 8-subunit protein complex that was initially discovered in Drosophila. The HAUS complex is essential for microtubule generation, centrosome integrity, mitotic spindle assembly and completion of cytokinesis. HAUS6 (HAUS augmin-like complex, subunit 6), also known as FAM29A or Dgt6, is a 955 amino acid component of the augmin complex. Required for mitotic progression, HAUS6 localizes to cytoplasm, cytoskeleton, mitotic spindle microtubules and interphase centrosomes, and undergoes post-translational phosphorylation following mitosis on multiple serine and threonine residues. HAUS6 exists as two alternatively spliced isoforms that are encoded by a gene located on human chromosome 9.

FAM29A Polyclonal Antibody - Additional Information

Gene ID 54801

Other Names



HAUS augmin-like complex subunit 6, HAUS6, DGT6, FAM29A, KIAA1574

Dilution

- WB \sim 1:1000<br \>IHC-P \sim N/A<br \><span class
- ="dilution_IHC-F">IHC-F~~N/A<br \><span class
- ="dilution IF">IF \sim 1:50 \sim 200
or \>E \sim N/A

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.

FAM29A Polyclonal Antibody - Protein Information

Name HAUS6

Synonyms DGT6, FAM29A, KIAA1574

Function

Contributes to mitotic spindle assembly, maintenance of centrosome integrity and completion of cytokinesis as part of the HAUS augmin-like complex. Promotes the nucleation of microtubules from the spindle through recruitment of NEDD1 and gamma-tubulin.

Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Localizes to interphase centrosomes and to mitotic spindle microtubules.

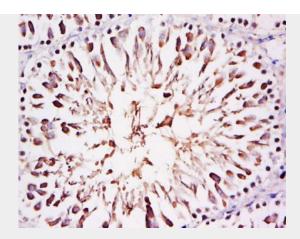
FAM29A Polyclonal Antibody - Protocols

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

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

FAM29A Polyclonal Antibody - Images





Tissue/cell: Rat testis 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-FAM29A Polyclonal Antibody, Unconjugated(bs-9723R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining