

SPC25 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58727

Specification

SPC25 Polyclonal Antibody - Product Information

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

Primary Accession Q9HBM1

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
26 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human SPC25

Epitope Specificity 121-224/224

lsotype 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. Note=Localizes to

kinetochores from late prophase to anaphase. Localizes specifically to the

outer plate of the kinetochore.

SIMILARITY Belongs to the SPC25 family.

SUBUNIT Component of the NDC80 complex, which consists of NDC80/HEC1. CDCA1. SPBC24

consists of NDC80/HEC1, CDCA1, SPBC24 and SPBC25. The NDC80 complex is formed

by two subcomplexes composed of

NDC80/HEC1-CDCA1 and SPBC24-SPBC25. Each subcomplex is formed by parallel

interactions through the coiled-coil domains of individual subunits. Formation

of a tetrameric complex is mediated by interactions between the C-terminal

regions of both subunits of the

NDC80/HEC1-CDCA1 subcomplex and the N-terminal regions of both subunits of the SPBC24-SPBC25 complex. The tetrameric NDC80 complex has an elongated rod-like structure with globular domains at either

end.

Important Note

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

therapeutic or diagnostic applications.

Background Descriptions

Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity. Required for kinetochore integrity and



the organization of stable microtubule binding sites in the outer plate of the kinetochore.

SPC25 Polyclonal Antibody - Additional Information

Gene ID 57405

Other Names

Kinetochore protein Spc25, hSpc25, SPC25, SPBC25

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \> <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_E">E~~N/A</span>
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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.

SPC25 Polyclonal Antibody - Protein Information

Name SPC25

Synonyms SPBC25

Function

Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity (PubMed:14699129, PubMed:14738735). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:14699129, PubMed:14738735). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules (PubMed:23085020).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14738735). Localizes specifically to the outer plate of the kinetochore (PubMed:14699129, PubMed:14738735)

SPC25 Polyclonal Antibody - Protocols

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

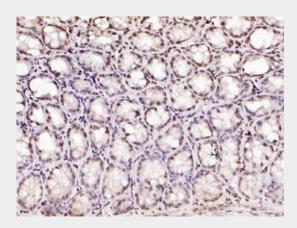
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry





- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

SPC25 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPC25) Polyclonal Antibody, Unconjugated (bs-7716R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.