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RCC2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19348c

Specification

RCC2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9P258
Other Accession	NP_061185.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56085**
Antigen Region	**169-198**

RCC2 Antibody (Center) - Additional Information

Gene ID 55920

Other Names
Protein RCC2, RCC1-like protein TD-60, Telophase disk protein of 60 kDa, RCC2, KIAA1470, TD60

Target/Specificity
This RCC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 169-198 amino acids from the Central region of human RCC2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RCC2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RCC2 Antibody (Center) - Protein Information

Name RCC2

Synonyms KIAA1470, TD60

Function Multifunctional protein that may affect its functions by regulating the activity of small GTPases, such as RAC1 and RALA (PubMed:12919680, PubMed:25074804, PubMed:26158537, PubMed:28869598). Required for normal progress through the cell cycle, both during interphase and during mitosis (PubMed:12919680, PubMed:23388455, PubMed:26158537). Required for the presence of normal levels of MAD2L1, AURKB and BIRC5 on inner centromeres during mitosis, and for normal attachment of kinetochores to mitotic spindles (PubMed:12919680, PubMed:26158537). Required for normal organization of the microtubule cytoskeleton in interphase cells (PubMed:23388455). Functions as guanine nucleotide exchange factor (GEF) for RALA (PubMed:26158537). Interferes with the activation of RAC1 by guanine nucleotide exchange factors (PubMed:25074804). Prevents accumulation of active, GTP-bound RAC1, and suppresses RAC1-mediated reorganization of the actin cytoskeleton and formation of membrane protrusions (PubMed:25074804, PubMed:28869598). Required for normal cellular responses to contacts with the extracellular matrix of adjacent cells, and for directional cell migration in response to a fibronectin gradient (in vitro) (PubMed:25074804, PubMed:28869598).

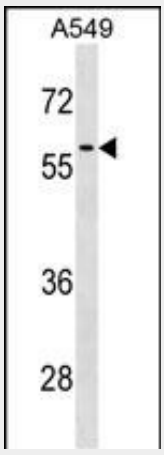
Cellular Location
Nucleus, nucleolus. Nucleus. Cytoplasm, cytoskeleton. Chromosome, centromere. Cytoplasm, cytoskeleton, spindle. Chromosome. Midbody. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Appears in the nucleus at G2, then concentrates at the inner centromere region of chromosomes during prophase. Redistributes to the midzone of the mitotic spindle during anaphase. Here, the protein covers the entire equatorial diameter from cortex to cortex (PubMed:12919680, PubMed:1939370, PubMed:7559776, PubMed:9914378). Colocalizes with cytoplasmic microtubules in interphase cells (PubMed:23388455). Colocalizes with RAC1 at the cell membrane (PubMed:25074804).

RCC2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RCC2 Antibody (Center) - Images



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RCC2 Antibody (Center)(Cat. #AP19348c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the RCC2 antibody detected the RCC2 protein (arrow).

RCC2 Antibody (Center) - Background

Required for completion of mitosis and cytokinesis. RCC2 may function as a guanine nucleotide exchange factor for the small GTPase RAC1.

RCC2 Antibody (Center) - References

Humphries, J.D., et al. Sci Signal 2 (87), RA51 (2009) :
Stacey, S.N., et al. Nat. Genet. 40(11):1313-1318(2008)
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
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