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RCC2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP19348c

Specification

RCC2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9P258

RCC2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 55920

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RCC2 Antibody (Center) Blocking Peptide - 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:23388455, PubMed:12919680, 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) Blocking Peptide - Protocols

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

- Blocking Peptides

RCC2 Antibody (Center) Blocking Peptide - Images

RCC2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)Olsen, J.V., et al. Cell 127(3):635-648(2006)