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RCC1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12520

Specification

RCC1 Antibody - Product Information

Application	**IHC**
Primary Accession	P18754
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45kDa KDa**

RCC1 Antibody - Additional Information

Gene ID 1104

Other Names
Regulator of chromosome condensation, Cell cycle regulatory protein, Chromosome condensation protein 1, RCC1, CHC1

Target/Specificity
Reacts with human & Xenopus RanGEF

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
RCC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RCC1 Antibody - Protein Information

Name RCC1

Synonyms CHC1

Function
Guanine-nucleotide releasing factor that promotes the exchange of Ran-bound GDP by GTP, and thereby plays an important role in RAN-mediated functions in nuclear import and mitosis (PubMed:1944575, PubMed:17435751, PubMed:20668449, PubMed:22215983, PubMed:11336674). Contributes to the generation of high levels of chromosome-associated, GTP-bound RAN, which is important for mitotic spindle assembly and normal progress through mitosis (PubMed:12194828, PubMed:17435751, PubMed:<a

href="http://www.uniprot.org/citations/22215983" target="_blank">22215983). Via its role in maintaining high levels of GTP-bound RAN in the nucleus, contributes to the release of cargo proteins from importins after nuclear import (PubMed:22215983). Involved in the regulation of onset of chromosome condensation in the S phase (PubMed:3678831). Binds both to the nucleosomes and double- stranded DNA (PubMed:17435751, PubMed:18762580).

Cellular Location
Nucleus. Chromosome. Cytoplasm Note=Predominantly nuclear in interphase cells (PubMed:12194828). Binds to mitotic chromosomes (PubMed:12194828, PubMed:17435751, PubMed:20668449).

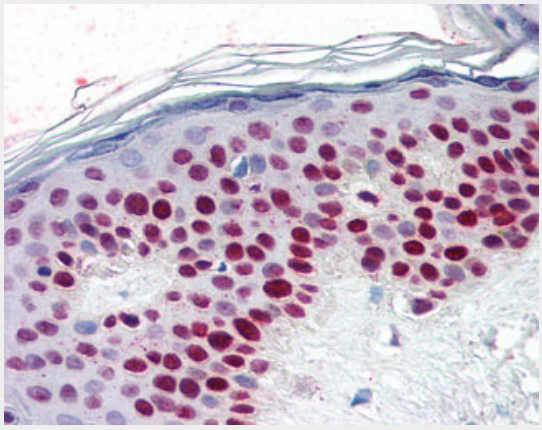
Volume
50 µl

RCC1 Antibody - 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

RCC1 Antibody - Images



Anti-RCC1 antibody IHC staining of human skin.

RCC1 Antibody - Background

Guanine-nucleotide releasing factor that promotes the exchange of Ran-bound GDP by GTP. Involved in the regulation of onset of chromosome condensation in the S phase. Binds both to the nucleosomes and double-stranded DNA. RCC1-Ran complex (together with other proteins) acts as a component of a signal transmission pathway that detects unreplicated DNA. Plays a key role in

nucleo- cytoplasmic transport, mitosis and nuclear-envelope assembly.

RCC1 Antibody - References

Ohtsubo M.,et al.Genes Dev. 1:585-593(1987).
Furuno N.,et al.Genomics 11:459-461(1991).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Miyabashira J.,et al.J. Cell Sci. 107:2203-2208(1994).
Bischoff F.R.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:8617-8621(1990).