

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](http://www.uniprot.org/citations/1944575), PubMed: [17435751](http://www.uniprot.org/citations/17435751), PubMed: [20668449](http://www.uniprot.org/citations/20668449), PubMed: [22215983](http://www.uniprot.org/citations/22215983), PubMed: [11336674](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12194828), PubMed: [17435751](http://www.uniprot.org/citations/17435751), PubMed: [17435751](http://www.uniprot.org/citations/17435751)).

[22215983](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22215983)). Involved in the regulation of onset of chromosome condensation in the S phase (PubMed:[3678831](http://www.uniprot.org/citations/3678831)). Binds both to the nucleosomes and double- stranded DNA (PubMed:[17435751](http://www.uniprot.org/citations/17435751), PubMed:[18762580](http://www.uniprot.org/citations/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

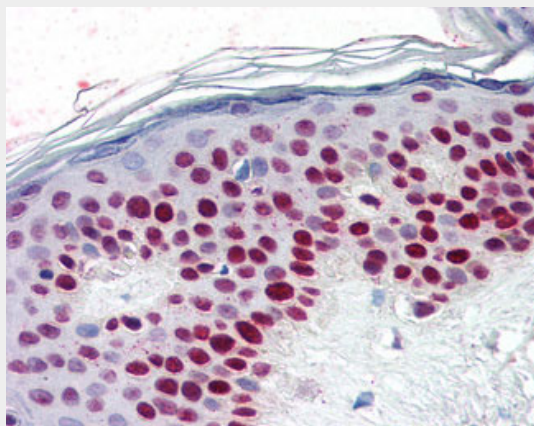
50 µl

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 Cytometry](#)
- [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).