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KD-Validated Anti-Regulator Of Chromosome Condensation 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1394

Product Information

Application	WB, FC
Primary Accession	P18754
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3350
Calculated MW	44969
Gene Name	RCC1
Aliases	RCC1; Regulator Of Chromosome Condensation 1; CHC1; Regulator Of Chromosome Condensation; Cell Cycle Regulatory Protein; Guanine Nucleotide-Releasing Protein; Chromosome Condensation Protein 1; Chromosome Condensation 1; RCC1-I
Immunogen	A synthesized peptide derived from human RCC1

Additional Information

Gene ID	1104
Other Names	Regulator of chromosome condensation, Cell cycle regulatory protein, Chromosome condensation protein 1, RCC1, CHC1

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:11336674, PubMed:17435751, PubMed:1944575, PubMed:20668449, PubMed:22215983, PubMed:29042532). 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: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).

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