

KD-Validated Anti-Regulator Of Chromosome Condensation 1 Rabbit Monoclonal Antibody**Rabbit monoclonal antibody**
Catalog # AGI1394**Specification**

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

Application	WB, FC
Primary Accession	P18754
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 45 kDa; observed, 48 kDa kDa
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

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

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

KD-Validated Anti-Regulator Of Chromosome Condensation 1 Rabbit Monoclonal 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: [11336674](http://www.uniprot.org/citations/11336674), PubMed: [17435751](http://www.uniprot.org/citations/17435751), PubMed: [1944575](http://www.uniprot.org/citations/1944575), PubMed: [20668449](http://www.uniprot.org/citations/20668449), PubMed: [22215983](http://www.uniprot.org/citations/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

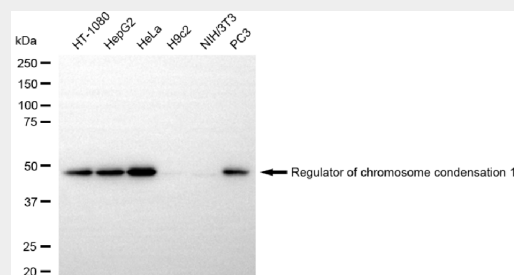
Nucleus. Chromosome. Cytoplasm Note=Predominantly nuclear in interphase cells (PubMed:12194828). Binds to mitotic chromosomes (PubMed:12194828, PubMed:17435751, PubMed:20668449).

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

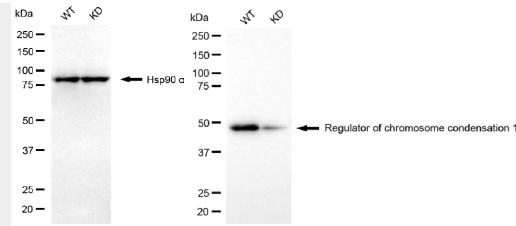
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

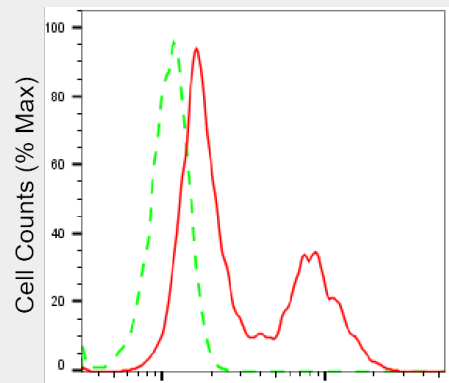
KD-Validated Anti-Regulator Of Chromosome Condensation 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-regulator of chromosome condensation 1 antibody (Cat#AGI1394). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-regulator of chromosome condensation 1 antibody (Cat#AGI1394, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



Western blotting analysis using anti-regulator of chromosome condensation 1 antibody (Cat#AGI1394). Regulator of chromosome condensation 1 expression in wild type (WT) and regulator of chromosome condensation 1 (RCC1) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-regulator of chromosome condensation 1 antibody (Cat#AGI1394, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Regulator of chromosome condensation 1-
Alexa Fluor® 647

Flow cytometric analysis of Regulator of chromosome condensation 1 expression in HepG2 cells using anti-Regulator of chromosome condensation 1 antibody (Cat#AGI1394, 1:2,000). Green, isotype control; red, Regulator of chromosome condensation 1.