

Rabbit RCC1 Polyclonal Antibody | anti-RCC1 antibody

Anti-RCC1 Antibody

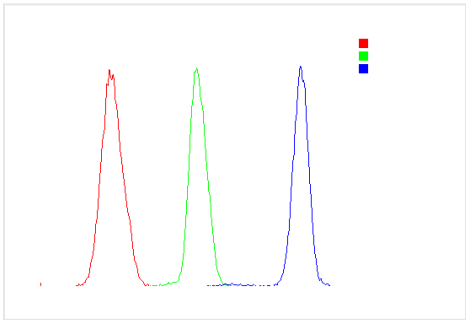
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19263	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RCC1; Polyclonal Antibody; Anti-RCC1 Antibody; Regulator of chromosome condensation; Cell cycle regulatory protein; Chromosome condensation protein 1; CHC1; regulator of chromosome condensation 1; anti-RCC1 antibody

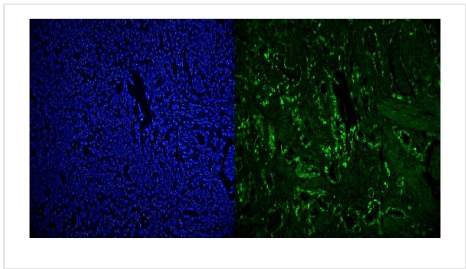
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for RCC1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-RCC1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat IHC-P: 0.5-1ug/ml Human, Mouse, Rat Immunohistochemistry(Frozen Section) 0.5-1ug/ml Human ICC/IF: 4ug/ml Human IF: 4ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human RCC1 recombinant protein (Position: A14-S421).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



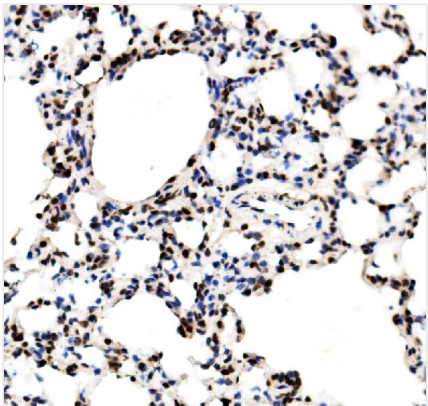
FCM (Flow Cytometry)

Figure 10. Flow Cytometry analysis of K562 cells using anti-RCC1 antibody (AAA19263). Overlay histogram showing K562 cells stained with AAA19263 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RCC1 Antibody (AAA19263, 1 μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight 488 conjugated goat anti-rabbit IgG (5-10 μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



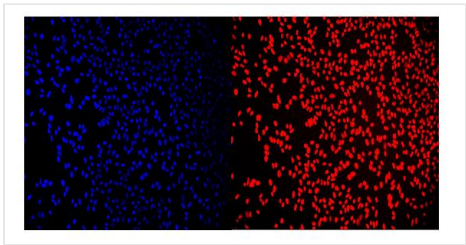
IF (Immunofluorescence)

Figure 8. IF analysis of RCC1 using anti- RCC1 antibody (AAA19263). RCC1 was detected in paraffin-embedded section of human intestine cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 4 μg/mL rabbit anti- RCC1 Antibody (AAA19263) overnight at 4 degree C. DyLight 488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



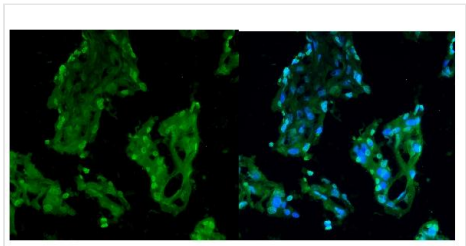
IHC (Immunohistochemistry)

Figure 6. IHC analysis of RCC1 using anti-RCC1 antibody (AAA19263). RCC1 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μg/mL rabbit anti-RCC1 Antibody (AAA19263) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



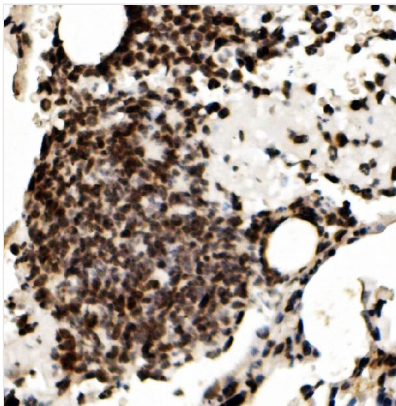
IF (Immunofluorescence)

Figure 9. IF analysis of RCC1 using anti-RCC1 antibody (AAA19263). RCC1 was detected in immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4 μg/mL rabbit anti-RCC1 Antibody (AAA19263) overnight at 4 degree C. DyLight 594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of RCC1 using anti- RCC1 antibody (AAA19263). RCC1 was detected in frozen section of human placenta tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μg/mL rabbit anti- RCC1 Antibody (AAA19263) overnight at 4 degree C. DyLight 488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 5. IHC analysis of RCC1 using anti-RCC1 antibody (AAA19263). RCC1 was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μg/mL rabbit anti-RCC1 Antibody (AAA19263) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-RCC1 antibody	CHC1, also named as RCC1, SNHG3-RCC1, promotes the exchange of ran-bound gdp by gtp. It is involved in the regulation of onset of chromosome condensation in the S-phase. Phosphorylation of RCC1 on serines located in or near its nuclear localization signal activates RCC1 to generate RanGTP on mitotic chromosomes, which is required for spindle assembly and chromosome segregation. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human RCC1. The geneID has updated as 1104 recently.
References	1. Bischoff, F. R., Maier, G., Tilz, G., Ponstingl, H. A 47-kDa human nuclear protein recognized by antikinetochore autoimmune sera is homologous with the protein encoded by RCC1, a gene implicated in onset of chromosome condensation. Proc. Nat. Acad. Sci. 87: 8617-8621, 1990. 2. Carazo-Salas, R. E., Guarguaglini, G., Gruss, O. J., Segref, A., Karsenti, E., Mattaj, I. W. Generation of GTP-bound Ran by RCC1 is required for chromatin-induced mitotic spindle formation. Nature 400: 178-181, 1999. 3. Chen, T., Muratore, T. L., Schaner-Tooley, C. E., Shabanowitz, J., Hunt, D. F., Macara, I. G. N-terminal alpha-methylation of RCC1 is necessary for stable chromatin association and normal mitosis. Nature Cell Biol. 9: 596-603, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	132170
NCBI GeneID	1104
UniProt Accession #	P18754; Q16269; Q6NT97
Molecular Weight	421
NCBI Official Full Name	Regulator of chromosome condensation
NCBI Official Synonym Full Names	regulator of chromosome condensation 1
NCBI Official Symbol	RCC1
NCBI Official Synonym Symbols	CHC1; RCC1-I; SNHG3-RCC1
NCBI Protein Information	regulator of chromosome condensation; SNHG3-RCC1 readthrough; cell cycle regulatory protein; guanine nucleotide-releasing protein
UniProt Protein Name	Regulator of chromosome condensation
UniProt Gene Name	RCC1
UniProt Synonym Gene Names	CHC1
UniProt Entry Name	RCC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rcc1-antibody-western-blot-immunohistochemistry-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19263>