DATASHEET

RAD21 Rabbit Polyclonal Antibody

CAT. NO. APA10195

KEY FEATURES

Target	RAD21	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Zebrafish	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

As a member of the cohesin complex, involved in sister chromatid cohesion from the time of DNA replication in S phase to their segregation in mitosis, a function that is essential for proper chromosome segregation, post-replicative DNA repair, and the prevention of inappropriate recombination between repetitive regions . The cohesin complex may also play a role in spindle pole assembly during mitosis . In interphase, cohesins may function in the control of gene expression by binding to numerous sites within the genome . May control RUNX1 gene expression (Probable). Binds to and represses APOB gene promoter . May play a role in embryonic gut development, possibly through the regulation of enteric neuron development .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200
IF/ICC	1:100 - 1:500

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to RAD21
Specificity	Recognizes endogenous levels of RAD21 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RAD21. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 71 kD; Observed: 72; 120 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HR21; KIAA0078; NXP1; Double-strand-break repair protein rad21 homolog; hHR21; Nuclear matrix protein 1; NXP-1; SCC1 homolog
Gene Symbol	RAD21
Entrez Gene	5885(Human); 19357(Mouse)
SwissProt	O60216(Human); Q61550(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

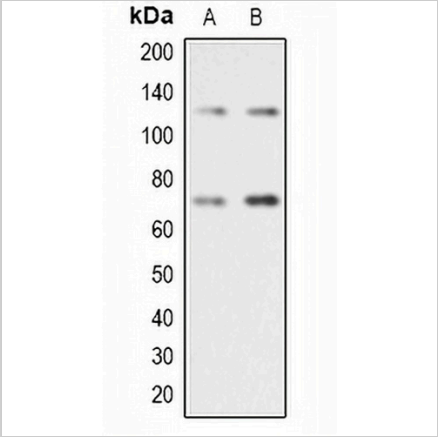
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

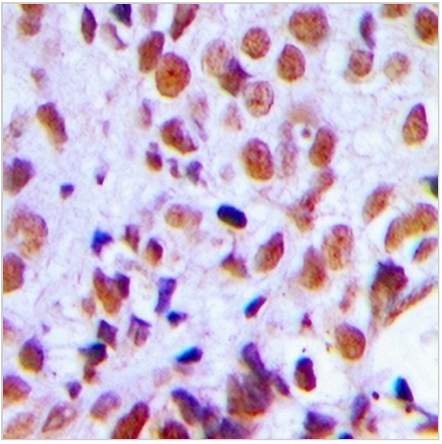
RAD21 Rabbit Polyclonal Antibody

CAT. NO. APA10195

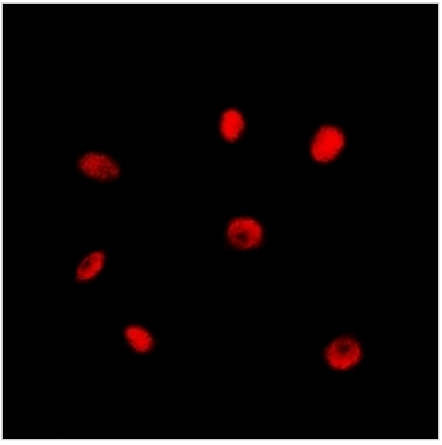
DATA



Western blot analysis of RAD21 expression in Jurkat (A), A431 (B) whole cell lysates. (Predicted band size: 71 kD; Observed band size: 72; 120 kD)



Immunohistochemical analysis of RAD21 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RAD21 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.