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RAD21L1 Rabbit pAb

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Catalog # AP57896

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H4I0
Reactivity	Rat
Predicted	Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63324
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RAD21L1
Epitope Specificity	101-200/556
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Nucleus. Chromosome. Note: In meiotic chromosomes, localized along axial elements in early meiosis: detectable on the axial elements in leptotene, and stays on the axial/lateral elements until mid pachytene. It then disappears and is replaced with RAD21. Compared to REC8, has mutually exclusive loading sites on the chromosomes: REC8 and RAD21L form distinct cohesin-enriched domains along the axial elements.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Function: Meiosis-specific component of some cohesin complex. Probably required during early meiosis for separation of sister chromatids and homologous chromosomes. Replaces RAD21 in premeiotic S phase (during early stages of prophase I), while RAD21 reappears in later stages of prophase I. May be involved in synapsis initiation and crossover recombination between homologous chromosomes. Subunit structure: Component of some meiotic cohesin complex composed of the SMC1 (SMC1A or SMC1B) and SMC3 heterodimer attached via their hinge domain, RAD21L which link them, and STAG3. Sequence similarities Belongs to the rad21 family.

Additional Information

Gene ID	642636
Other Names	Double-strand-break repair protein rad21-like protein 1, RAD21L1, RAD21L
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

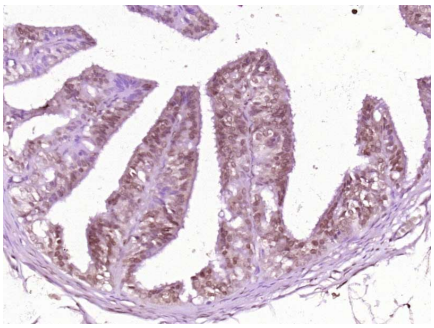
Protein Information

Name	RAD21L1
Synonyms	RAD21L
Function	Meiosis-specific component of some cohesin complex required during the initial steps of prophase I in male meiosis. Probably required during early meiosis in males for separation of sister chromatids and homologous chromosomes. Replaces RAD21 in premeiotic S phase (during early stages of prophase I), while RAD21 reappears in later stages of prophase I. Involved in synaptonemal complex assembly, synapsis initiation and crossover recombination between homologous chromosomes during prophase I (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:A2AU37}. Chromosome {ECO:0000250|UniProtKB:A2AU37}. Note=In meiotic chromosomes, localized along axial elements in early meiosis: detectable on the axial elements in leptotene, and stays on the axial/lateral elements until mid pachytene. It then disappears and is replaced with RAD21 Compared to REC8, has mutually exclusive loading sites on the chromosomes: REC8 and RAD21L form distinct cohesin-enriched domains along the axial elements. {ECO:0000250|UniProtKB:A2AU37}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAD21L1) Polyclonal Antibody, Unconjugated (AP57896) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.