

# Anti-RAD51AP1 Antibody (aa340-352)

Goat Anti Human Polyclonal Antibody  
Catalog # ALS17909

## Product Information

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<b>Application</b>	IHC-P, E
<b>Primary Accession</b>	<a href="#">Q96B01</a>
<b>Predicted</b>	Human
<b>Host</b>	Goat
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	38457

## Additional Information

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<b>Gene ID</b>	10635
<b>Alias Symbol</b> <b>Other Names</b>	RAD51AP1 RAD51AP1, PIR51, RAD51-associated protein 1, RAD51 associated protein 1, RAD51-interacting protein
<b>Target/Specificity</b>	Human RAD51AP1. This antibody is expected to recognise both reported isoforms.
<b>Reconstitution &amp; Storage</b>	Immunoaffinity purified
<b>Precautions</b>	Anti-RAD51AP1 Antibody (aa340-352) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RAD51AP1 {ECO:0000303   PubMed:16990250, ECO:0000312   HGNC:HGNC:16956}
<b>Function</b>	Structure-specific DNA-binding protein involved in DNA repair by promoting RAD51-mediated homologous recombination (PubMed: <a href="#">17996710</a> , PubMed: <a href="#">17996711</a> , PubMed: <a href="#">20871616</a> , PubMed: <a href="#">25288561</a> , PubMed: <a href="#">26323318</a> ). Acts by stimulating D-Loop formation by RAD51: specifically enhances joint molecule formation through its structure-specific DNA interaction and its interaction with RAD51 (PubMed: <a href="#">17996710</a> , PubMed: <a href="#">17996711</a> ). Binds single-stranded DNA (ssDNA), double-stranded DNA (dsDNA) and secondary DNA structures, such as D-loop structures: has a strong preference for branched-DNA structures that are obligatory intermediates during joint molecule formation (PubMed: <a href="#">17996710</a> , PubMed: <a href="#">17996711</a> , PubMed: <a href="#">22375013</a> , PubMed: <a href="#">9396801</a> ). Cooperates with WDR48/UAF1 to stimulate RAD51-mediated homologous recombination: both WDR48/UAF1 and RAD51AP1 have coordinated role in DNA-binding during homologous recombination and DNA repair (PubMed: <a href="#">27239033</a> ,

PubMed:[27463890](#), PubMed:[32350107](#)). WDR48/UAF1 and RAD51AP1 also have a coordinated role in DNA-binding to promote USP1-mediated deubiquitination of FANCD2 (PubMed:[31253762](#)). Also involved in meiosis by promoting DMC1-mediated homologous meiotic recombination (PubMed:[21307306](#)). Key mediator of alternative lengthening of telomeres (ALT) pathway, a homology-directed repair mechanism of telomere elongation that controls proliferation in aggressive cancers, by stimulating homologous recombination (PubMed:[31400850](#)). May also bind RNA; additional evidences are however required to confirm RNA-binding in vivo (PubMed:[9396801](#)).

**Cellular Location**

Chromosome. Nucleus Chromosome, telomere. Note=Colocalizes with RAD51 to multiple nuclear foci (By similarity). Colocalizes with DMC1 on meiotic chromatin (By similarity) {ECO:0000250|UniProtKB:Q8C551}

**Tissue Location**

Highly expressed in testis and thymus (PubMed:9396801). Lower levels in colon and small intestine (PubMed:9396801). Little or no expression in spleen, prostate, ovary and peripheral blood leukocytes (PubMed:9396801)

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