

**Anti-RAD51AP1 Antibody (aa340-352)**  
**Goat Anti Human Polyclonal Antibody**  
**Catalog # ALS17909****Specification****Anti-RAD51AP1 Antibody (aa340-352) - Product Information**

Application	IHC-P, E
Primary Accession	<a href="#">O96B01</a>
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	38457

**Anti-RAD51AP1 Antibody (aa340-352) - Additional Information****Gene ID** 10635**Alias Symbol** **RAD51AP1****Other Names**

RAD51AP1, PIR51, RAD51-associated protein 1, RAD51 associated protein 1, RAD51-interacting protein

**Target/Specificity**

Human RAD51AP1. This antibody is expected to recognise both reported isoforms.

**Reconstitution & Storage**

Immunoaffinity purified

**Precautions**

Anti-RAD51AP1 Antibody (aa340-352) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-RAD51AP1 Antibody (aa340-352) - Protein Information****Name** RAD51AP1 {ECO:0000303|PubMed:16990250, ECO:0000312|HGNC:HGNC:16956}**Function**

Structure-specific DNA-binding protein involved in DNA repair by promoting RAD51-mediated homologous recombination (PubMed:<a href="http://www.uniprot.org/citations/17996710" target="\_blank">17996710</a>, PubMed:<a href="http://www.uniprot.org/citations/17996711" target="\_blank">17996711</a>, PubMed:<a href="http://www.uniprot.org/citations/20871616" target="\_blank">20871616</a>, PubMed:<a href="http://www.uniprot.org/citations/25288561" target="\_blank">25288561</a>, PubMed:<a href="http://www.uniprot.org/citations/26323318" target="\_blank">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="http://www.uniprot.org/citations/17996710" target="\_blank">17996710</a>, PubMed:<a href="http://www.uniprot.org/citations/17996711" target="\_blank">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="http://www.uniprot.org/citations/9396801" target="\_blank">9396801</a>, PubMed:<a href="http://www.uniprot.org/citations/17996711" target="\_blank">17996711</a>, PubMed:<a href="http://www.uniprot.org/citations/22375013" target="\_blank">22375013</a>, PubMed:<a href="http://www.uniprot.org/citations/17996710" target="\_blank">17996710</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="http://www.uniprot.org/citations/27463890" target="\_blank">27463890</a>, PubMed:<a href="http://www.uniprot.org/citations/27239033" target="\_blank">27239033</a>, PubMed:<a href="http://www.uniprot.org/citations/32350107" target="\_blank">32350107</a>). WDR48/UAF1 and RAD51AP1 also have a coordinated role in DNA-binding to promote USP1-mediated deubiquitination of FANCD2 (PubMed:<a href="http://www.uniprot.org/citations/31253762" target="\_blank">31253762</a>). Also involved in meiosis by promoting DMC1-mediated homologous meiotic recombination (PubMed:<a href="http://www.uniprot.org/citations/21307306" target="\_blank">21307306</a>). 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:<a href="http://www.uniprot.org/citations/31400850" target="\_blank">31400850</a>). May also bind RNA; additional evidences are however required to confirm RNA-binding in vivo (PubMed:<a href="http://www.uniprot.org/citations/9396801" target="\_blank">9396801</a>).

#### **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)

### **Anti-RAD51AP1 Antibody (aa340-352) - 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](#)

### **Anti-RAD51AP1 Antibody (aa340-352) - Images**