

## Product datasheet for **AP21140PU-N**

### **RAD51 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Rad51 protein. (region surrounding Leu302)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 42 kDa
Gene Name:	RAD51 recombinase
Database Link:	<u><a href="#">Entrez Gene 19361 Mouse</a></u> <u><a href="#">Entrez Gene 5888 Human</a></u> <u><a href="#">Q06609</a></u>



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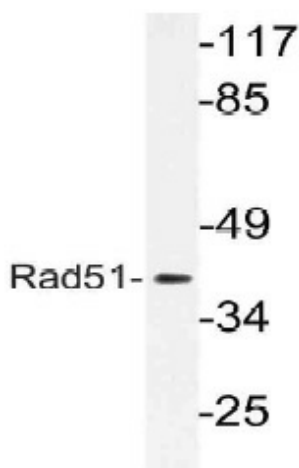
**Background:** Rad51 is a recombinase that is essential for homologous recombination and double-strand break repair. It binds to single and double-stranded DNA, and has DNA-dependent ATPase activity. Rad51 unwinds duplex DNA and forms helical nucleoprotein filaments in a manner that is controlled through the action of DNA helicases that counteract nucleofilament formation. Rad51 interacts with BRCA1 and BRCA2, and also plays a role in p53-mediated signalling. Interaction of Rad51 with Chk1 kinase may occur in response to Chk1 phosphorylation.

**Synonyms:** RAD51A, RECA

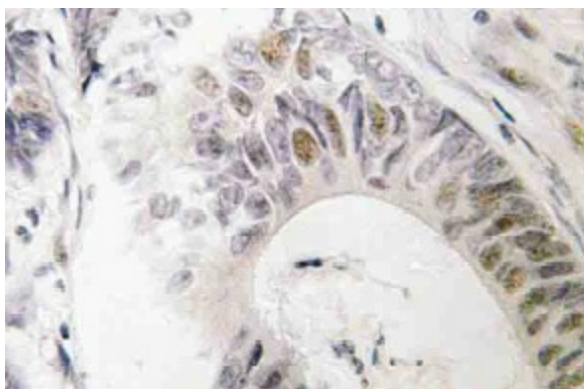
**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Homologous recombination, Pancreatic cancer, Pathways in cancer

**Product images:**



Western blot (WB) analysis of Rad51 antibody (Cat.-No.: AP21140PU-N) in extracts from 3T3 cells.



Immunohistochemistry (IHC) analyzes of Rad51 antibody (Cat.-No.: AP21140PU-N) in paraffin-embedded human colon carcinoma tissue.