

# Rad51 rabbit pAb

## Cat No.:ES3307

For research use only

#### Overview

Product Name	Rad51 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000.
	Immunohistochemistry: 1/100 - 1/300. ELISA:
	1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from human RAD51. AA
	range:281-330
Specificity	Rad51 Polyclonal Antibody detects endogenous
	levels of Rad51 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	DNA repair protein RAD51 homolog 1
Gene Name	RAD51
Cellular localization	Nucleus . Cytoplasm . Cytoplasm, perinuclear region.
	Mitochondrion matrix . Chromosome . Cytoplasm,
	cytoskeleton, microtubule organizing center,
	centrosome . Colocalizes with RAD51AP1 and RPA2
	to multiple nuclear foci upon induction of DNA
	damage (PubMed:20154705). DNA damage induces
	an increase in nuclear levels (PubMed:20154705).
	Together with FIGNL1, redistributed in discrete
	nuclear DNA damage-induced foci after ionizing
	radiation (IR) or camptothecin (CPT) treatment
	(PubMed:23754376). Accumulated at sites of DNA
	damage in a SPIDR-dependent manner
	(PubMed:23509288). Recruited at sites of DNA
	damage in a MCM9-MCM8-dependent manner
	(PubMed:23401855). Colocalizes with ERCC5/XPG to
	nuclear foci in S phase (PubMed:26833090)



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#### Purification

Clonality
Concentration
Observed band
Human Gene ID
Human Swiss-Prot Number
Alternative Names

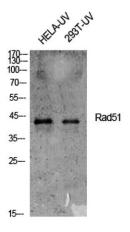
Background

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Polyclonal

1 mg/ml 42kD 5888

### Q06609

RAD51; RAD51A; RECA; DNA repair protein RAD51 homolog 1; HsRAD51; hRAD51; RAD51 homolog A The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009],



Western Blot analysis of various cells using Rad51 Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



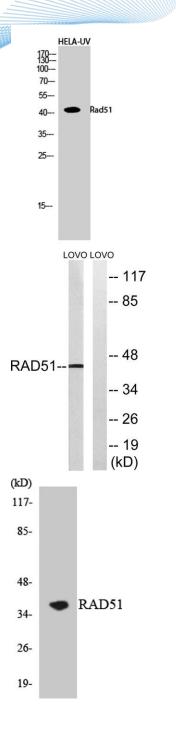
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Western Blot analysis of HELA-UV cells using Rad51 Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

Western blot analysis of lysates from LOVO cells, using RAD51 Antibody. The lane on the right is blocked with the synthesized peptide.

Western blot analysis of the lysates from HeLa cells using RAD51 antibody.



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