

Anti-RAD1 Antibody
Rabbit polyclonal antibody to RAD1
Catalog # AP59932**Specification**

Anti-RAD1 Antibody - Product Information

Application	WB
Primary Accession	O60671
Other Accession	O9QWZ1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31827

Anti-RAD1 Antibody - Additional Information**Gene ID** 5810**Other Names**REC1; Cell cycle checkpoint protein RAD1; hRAD1; DNA repair exonuclease rad1 homolog;
Rad1-like DNA damage checkpoint protein**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RAD1. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-RAD1 Antibody - Protein Information**Name** RAD1**Synonyms** REC1**Function**

Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair (PubMed:10846170, PubMed:10884395). The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex (PubMed:<a

[12578958](http://www.uniprot.org/citations/12578958)). Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER) (PubMed: [15871698](http://www.uniprot.org/citations/15871698)). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates (PubMed: [15314187](http://www.uniprot.org/citations/15314187), PubMed: [15556996](http://www.uniprot.org/citations/15556996), PubMed: [15871698](http://www.uniprot.org/citations/15871698)). The 9-1-1 complex is necessary for the recruitment of RHN01 to sites of double-stranded breaks (DSB) occurring during the S phase (PubMed: [21659603](http://www.uniprot.org/citations/21659603)).

Cellular Location

Nucleus.

Tissue Location

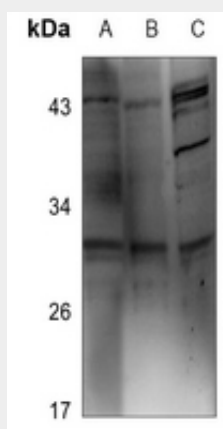
Expressed in testis, uterus, bladder, spleen, ovaries, lung, brain and muscle (at protein level)

Anti-RAD1 Antibody - 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-RAD1 Antibody - Images



Western blot analysis of RAD1 expression in SHSY5Y (A), BV2 (B), H9C2 (C) whole cell lysates.

Anti-RAD1 Antibody - Background

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