

# Rabbit anti-Human Cell cycle checkpoint protein RAD1 Polyclonal Antibody | anti-RAD1 antibody

Rabbit anti-human Cell cycle checkpoint protein RAD1 polyclonal Antibody(RAD1)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA118708 | Rabbit | Human      | Immunohistochemistry, Western Blot, ELISA |

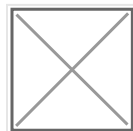
## PRODUCT SYNONYMS

Cell cycle checkpoint protein RAD1; Polyclonal Antibody; Rabbit anti-human Cell cycle checkpoint protein RAD1 polyclonal Antibody(RAD1); hRAD1; DNA repair exonuclease rad1 homolog; Rad1-like DNA damage checkpoint protein; RAD1; REC1; anti-RAD1 antibody

## PRODUCT SPECIFICATIONS

|                                                |                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                         |
| Reactivity                                     | Human                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                     |
| Isotype                                        | IgG                                                                                                            |
| Purity/Purification                            | Antigen Affinity Purified                                                                                      |
| Sequence Length                                | 282                                                                                                            |
| Applicable Applications for anti-RAD1 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                           |
| Storage Buffer                                 | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                              |
| Conjugate                                      | Non-conjugated                                                                                                 |
| Immunogen                                      | Recombinant human Cell cycle checkpoint protein RAD1 protein (1-282aa)                                         |
| Santa Cruz Alternative                         | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-14314 / sc-14316 / sc-22783            |
| Preparation and Storage                        | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

## IMAGES



### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human testicle using AAA118708 at dilution 1:100



### WB (Western Blot)

All lanes: Cell cycle checkpoint protein RAD1 antibody at 6ug/ml+NIH3T3 whole cell lysateSecondaryGoat polyclonal to rabbit at 1/10000 dilutionPredicted band size: 32,28,8 kDaObserved band size: 32 kDa

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RAD1 antibody | Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). 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. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. Isoform 1 possesses 3'->5' double stranded DNA exonuclease activity. |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 4506385                                                |
| NCBI GeneID                      | 5810                                                   |
| NCBI Accession #                 | NP_002844.1                                            |
| NCBI GenBank Nucleotide #        | NM_002853.3                                            |
| UniProt Accession #              | O60671; O75572; O95304; Q1W161; Q5KSM0; Q5KSM1; Q9UEP1 |
| Molecular Weight                 | 7,576 Da                                               |
| NCBI Official Full Name          | cell cycle checkpoint protein RAD1                     |
| NCBI Official Synonym Full Names | RAD1 checkpoint DNA exonuclease                        |
| NCBI Official Symbol             | RAD1                                                   |
| NCBI Official Synonym Symbols    | REC1; HRAD1                                            |
| NCBI Protein Information         | cell cycle checkpoint protein RAD1                     |
| UniProt Protein Name             | Cell cycle checkpoint protein RAD1                     |
| UniProt Gene Name                | <b>RAD1</b>                                            |
| UniProt Synonym Gene Names       | REC1; hRAD1                                            |
| UniProt Entry Name               | RAD1_HUMAN                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cell-cycle-checkpoint-protein-rad1-antibody-immunohistochemistry-western-blot-elisa/118708>