

## Product datasheet for **TA363696**

### **RAD51 Rabbit Polyclonal Antibody**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | WB  |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Immunogen:              | The immunogen is a synthetic peptide directed towards the middle terminal region of human RAD51   |
| Specificity:            | <b>Expected reactivity:</b> Human   |
| Formulation:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.<br><i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Concentration:          | lot specific  |
| Purification:           | Affinity purified   |
| Conjugation:            | Unconjugated  |
| Storage:                | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | 30 kDa  |
| Gene Name:              | RAD51 recombinase   |
| Database Link:          | <a href="#">NP_001157741.1</a><br><a href="#">Entrez Gene 5888 Human</a><br><a href="#">Q06609-3</a>  |



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**Background:**

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.

**Synonyms:**

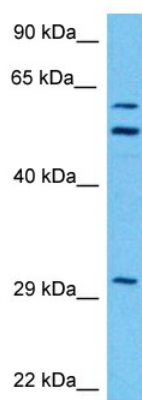
BRCC5; HRAD51; HsRad51; HsT16930; RAD51A; RAD51D; RAD51L3; RECA

**Protein Families:**

Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:**

Homologous recombination, Pancreatic cancer, Pathways in cancer

**Product images:**


Host: Rabbit  
Target Name: RAD51  
Sample Type: THP-1 Cell Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: RAD51  
Sample Tissue: Human THP-1 Whole Cell lysates  
Antibody Dilution: 1ug/ml