

## Product datasheet for **TA347037S**

### **RAD51 Mouse Monoclonal Antibody [Clone ID: 4H10-G5-H4]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	4H10-G5-H4
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The immunogen for RAD51 antibody: Recombinant protein of human Rad51.
Formulation:	0.03% Proclin300 and 50% glycerol.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	37 kDa
Gene Name:	RAD51 recombinase
Database Link:	<a href="#">NP_002866</a> <a href="#">Entrez Gene 19361 Mouse</a> <a href="#">Entrez Gene 499870 Rat</a> <a href="#">Entrez Gene 5888 Human</a> <a href="#">Q06609</a>

**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.



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**Synonyms:** BRCC5; FANCR; HRAD51; HsRad51; HsT16930; MRMV2; RAD51A; RECA

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

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