

Product datasheet for **TA347037**

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

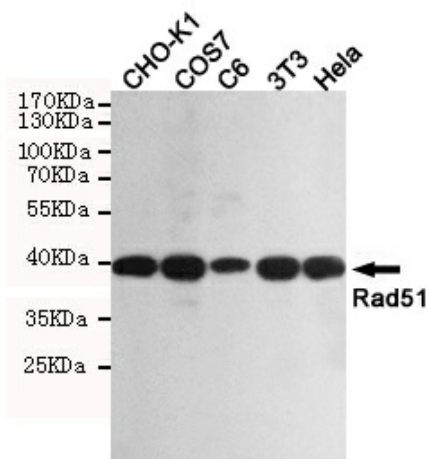
Product data:

Product Type:	Primary Antibodies
Clone Name:	4H10-G5-H4
Applications:	WB
Recommend Dilution:	WB: 1:1000
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The immunogen for RAD51 antibody: Recombinant protein of human Rad51.
Formulation:	0.03% Proclin300 and 50% glycerol.
Predicted Protein Size:	37 kDa
Gene Name:	RAD51 recombinase
Database Link:	NP_002866 Entrez Gene 19361 Mouse Entrez Gene 499870 Rat Entrez Gene 5888 Human
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; 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



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Product images:



Western blot detection of Rad51 in CHO-K1, COS7, C6, 3T3 and HeLa cell lysates using Rad51 mouse mAb (1:1000 diluted). Predicted band size: 37 kDa. Observed band size: 37 kDa.