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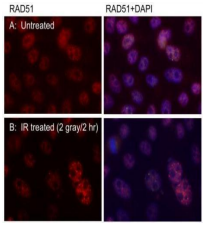
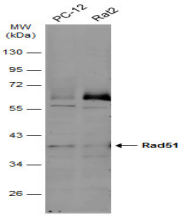
Product Datasheet

Rad51 antibody [14B4]
GRP90

Description	Rad51, a 37 kDa protein, is the human homologue of E. coli RecA protein and a member of the RAD52 epistasis group in S. cerevisiae. In recent studies it has been reported that BRCA1 interacts with Rad51 and disease-causing mutations have been found in the BRCA1 region necessary for BRCA1/Rad51 interaction, implying that this interaction is important for tumor suppression. BRCA2 and Rad51 have also been shown to interact by direct binding of the BRC repeats located within exon 11 of BRCA2. When these repeats are deleted, the interaction is lost and cells become hypersensitive to the DNA damage caused by methyl methanesulfonate (MMS).
Species/Host	Mouse
Reactivity	Human, Mouse, Rat, Chicken
Conjugation	Unconjugated
Tested Applications	ICC, IF, IHC-P, IP, WB
Immunogen	Full length (amino acids 1-338) Rad51 expressed in E. coli.
Form/Appearance	Liquid: PBS
Concentration	1.94 mg/ml
Storage	Store as concentrated solution. Centrifuge briefly prior to openin vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Note	For research use only.
Isotype	IgG2b
Clonality	Monoclonal
Purity	Purified by antigen-affinity chromatography.
Clone ID	14B4
Uniprot ID	Q06609
Entrez	5888
Dilution Range	WB: 1:500-1:3000,ICC: 1:100-1:1000,IHC-P: 1:100-1:1000



Immunofluorecent staning of RAD51 nuclear foci in U2OS cells using RAD51 14B4 antibody (GRP542). Cells were pre-extracted with CSK buffer before fixation with 4% PFA. RAD51 14B4 was used at 1:1000 dultion. DAPI was used to counterstain the nucleus. Scale



Various whole cell extracts (30 ?g) were separated by 10% SDS-PAGE, and the membrane was blotted with Rad51 antibody [14B4] (GRP542) diluted at 1:500. The HRP-conjugated anti-mouset IgG antibody was used to detect