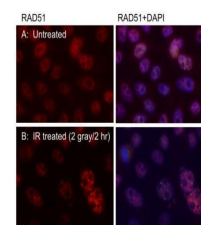


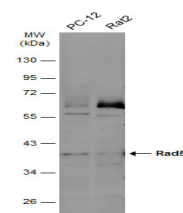
## Product Datasheet

### Rad51 antibody [14B4] GRP90

<b>Description</b>	Rad51, a 37 kDa protein, is the human homologue of E. coli RecA protein and a member of the RAD52 epistasis group in <i>S. cerevisiae</i> . 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).
<b>Species/Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse, Rat, Chicken
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	ICC, IF, IHC-P, IP, WB
<b>Immunogen</b>	Full length (amino acids 1-338) Rad51 expressed in E. coli.
<b>Form/Appearance</b>	Liquid: PBS
<b>Concentration</b>	1.94 mg/ml
<b>Storage</b>	Store as concentrated solution. Centrifuge briefly prior to opening 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.
<b>Note</b>	For research use only.
<b>Isotype</b>	IgG2b
<b>Clonality</b>	Monoclonal
<b>Purity</b>	Purified by antigen-affinity chromatography.
<b>Clone ID</b>	14B4
<b>Uniprot ID</b>	<a href="#">Q06609</a>
<b>Entrez</b>	<a href="#">5888</a>
<b>Dilution Range</b>	WB: 1:500-1:3000, ICC: 1:100-1:1000, IHC-P: 1:100-1:1000



Immunofluorescent staining 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 dilution. DAPI was used to counterstain the nucleus. Scale



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