

Rad51 Mouse Monoclonal Antibody

Catalog #: EAB22119

| Host/Isotype | Clonality | Applications | MW (kDa) | Reactivity |
|--------------|------------|-------------------|----------|-------------------|
| Mouse IgG2a | Monoclonal | WB, IHC-P, IF/ICC | 37 | Human, Mouse, Rat |

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|--|-------------|
| WB(Western Blotting) | 1:1000-5000 |
| IHC-P(Immunohistochemistry-Paraffin) | 1:100-500 |
| IF/ICC(Immunofluorescence/Immunocytochemistry) | 1:50-300 |

Product Information

| | |
|----------------|--|
| Conjugate | Unconjugate |
| Specificity | Rad51 Mouse Monoclonal Antibody detects endogenous levels of Rad51 protein. |
| Purification | Affinity purification |
| Concentration | 1mg/ml |
| Format | Liquid |
| Formulation | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol |
| Shipping | Gel Pack |
| Storage | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks |
| UniProt ID | Q06609 |
| Entrez-Gene ID | 5888 |

Product Description

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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