

Rad51



Mouse monoclonal Antibody

Catalog Number: 53142 Amount: 100µg/100µl Swiss-Prot No.: Q06609

Gene name:rad51
Gene id:5888

Clone Number: 4H10-G5-H4

Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM

NaCl) with 0.2% sodium azide, 50%,glycerol **Storage/Stability:** Store at -20°C/1 year

Immunogen: Purified recombinant human Rad51 protein fragments expressed in E.coli

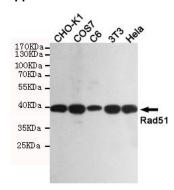
Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of Rad51 and does not corss-react with

related proteins

Reactivity: Human, Mouse, Rat, Monkey

Applications: Predicted MW: 37kd WB: 1:1000



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

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.