RAD52 Monoclonal antibody

Catalog Number:68283-1-Ig

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Basic Information

Catalog Number: 68283-1-Ig	**GenBank Accession Number:** NM_001297419	**Purification Method:** Protein G purification
Size: 1000 ug/ml	**GeneID (NCBI):** 5893	**CloneNo.:** 3H8G9
Source: Mouse	**UNIPROT ID:** P43351	**Recommended Dilutions:** WB 1:2000-1:10000
Isotype: IgG1	**Full Name:** RAD52 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG27665	**Calculated MW:** 46 aa	
	Observed MW: 46 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HL-60 cells, HSC-T6 cells, 4T1 cells

Background Information

In Saccharomyces cerevisiae, Rad52 functions as a critical mediator of homologous recombination (HR) by facilitating the loading of Rad51 onto ssDNA. However, in mammalian systems and other vertebrates, BRCA2 is known to function as the primary mediator of RAD51 filament formation, while prior studies have shown a limited role for RAD52 in HR.Additionally, loss of RAD52 has little consequence for cell viability. Recent evidence suggests that RAD52 may provide an alternative mediator pathway to BRCA2 function (PMID: 34928169). Several studies have suggested a link between the functional regulation of RAD52 and the protein modification by a small ubiquitin-like modifier (SUMO), sumoylation may play an important role in the nuclear transport of RAD52 (PMID:20190268). The calculated MW of Rad52 is 46 kDa, 68283-1-Ig can detect the band around 46 kDa.
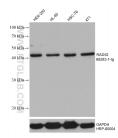
Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 68283-1-Ig (RAD52 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.