

For Research Use Only

# RAD52 Monoclonal antibody, PBS Only



Catalog Number: 68283-1-PBS

## Basic Information

<b>Catalog Number:</b> 68283-1-PBS	<b>GenBank Accession Number:</b> NM_001297419	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 5893	<b>CloneNo.:</b> 3H8G9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P43351	
<b>Isotype:</b> IgG1	<b>Full Name:</b> RAD52 homolog (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG27665	<b>Calculated MW:</b> 46 aa	
	<b>Observed MW:</b> 46 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human, mouse, rat

## 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 -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

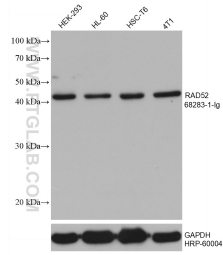
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## Selected Validation Data



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. This data was developed using the same antibody clone with 68283-1-PBS in a different storage buffer formulation.