For Research Use Only

# RAD52 Monoclonal antibody, PBS Only

Catalog Number:68283-1-PBS

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## Basic Information

Catalog Number:
68283-1-PBS

Size:
1mg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27665

GenBank Accession Number:
NM_001297419

GeneID (NCBI):
5893

UNIPROT ID:
P43351

Full Name:
RAD52 homolog (S. cerevisiae)

Calculated MW:
46 aa

Observed MW:
46 kDa

Purification Method:
Protein G purification

CloneNo.:
3H8G9

## 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.

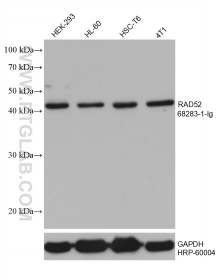
## Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## 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.