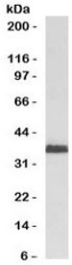
RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody [clone RALPA-1] (V7333)

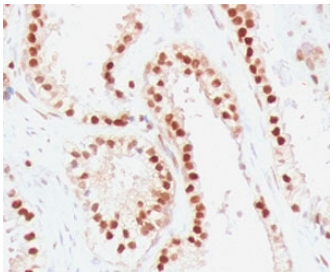
Catalog No.	Formulation	Size
V7333-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7333-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7333SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7333IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

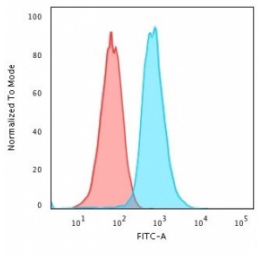
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	RALPA-1
Purity	Protein G affinity chromatography
UniProt	Q06609
Localization	Nuclear
Applications	Flow cytometry: 1-2ug/10^6 cells Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Prediluted IHC only format: incubate for 30 min at RT (1)
Limitations	This RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody is available for research use only.



RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody WB Analysis. Western blot testing of human HeLa cell lysate with RAD51 antibody (clone RALPA-1). Expected molecular weight ~37 kDa.



RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody Immunohistochemistry Analysis. IHC staining of FFPE human colon carcinoma with RAD51 antibody (clone RALPA-1). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



RAD51 Antibody RALPA-1 FACS Analysis. Flow cytometry testing of human K562 cells with RAD51 antibody (clone RALPA-1); Red=isotype control, Blue= RAD51 antibody.

Description

RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody detects RAD51 gene product. 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. [RefSeq]

Explore our RAD51 Antibody page for additional antibodies against RAD51 Recombinase, including IHC and Protein Microarray validated reagents for studies of homologous recombination, DNA damage responses, and genome stability.

Application Notes

The stated application concentrations are suggested starting points. Titration of the RAD51 Antibody RALPA-1 / RAD51 Monoclonal Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 1-134 from the human protein was used as the immunogen for this RAD51 antibody.

Storage

Store the RAD51 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Copyright © NSJ Bioreagents. All rights reserved.