Datasheet for ABIN7600692

# anti-RAD51 Homolog B antibody (AA 22-384)

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## Overview

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| Quantity: | 100 µg |
| Target: | RAD51 Homolog B (Rad51B) |
| Binding Specificity: | AA 22-384 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This RAD51 Homolog B antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC) |

## Product Details

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| Purpose: | Anti-RAD51L1/RAD51B Antibody Picoband® |
| Immunogen: | E.coli-derived human RAD51L1/RAD51B recombinant protein (Position: H22-F384). Human RAD51L1/RAD51B shares 85.8% amino acid (aa) sequence identity with mouse RAD51L1/RAD51B. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-RAD51L1/RAD51B Antibody Picoband® (ABIN7600692). Tested in WB, ICC/IF, Flow Cytometry, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are |

## Product Details

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| | designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | RAD51 Homolog B (Rad51B) |
| Alternative Name: | RAD51B (Rad51B Products) |
| Background: | Synonyms: RAD51B, RAD51L1, REC2, DNA repair protein RAD51 homolog 2, R51H2, RAD51 homolog B, Rad51B, RAD51-like protein 1<br>Background: The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage. Rearrangements between this locus and high mobility group AT-hook 2 (HMGA2, GeneID 8091) have been observed in uterine leiomyomata. |
| Molecular Weight: | 42 kDa |
| Gene ID: | 5890 |
| UniProt: | O15315 |
| Pathways: | DNA Damage Repair |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human<br>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 µg/mL<br>1. Adelman, C. A., Lolo, R. L., Birkbak, N. J., Murina, O., Matsuzaki, K., Horejsi, Z., Parmar, K., Borel, V., Skehel, J. M., Stamp, G., D'Andrea, A., Sartori, A. A., Swanton, C., Boulton, S. J. HELQ promotes RAD51 paralogue-dependent repair to avert germ cell loss and tumorigenesis. Nature 502: 381-384, 2013. 2. Albala, J. S., Thelen, M. P., Prange, C., Fan, W., Christensen, M., Thompson, L. H., Lennon, G. G. Identification of a novel human RAD51 homolog, RAD51B. Genomics 46: 476-479, 1997. Note: Erratum: Genomics 51: 480 only, 1998. 3. Cartwright, R., |

## Application Details

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| | Dunn, A. M., Simpson, P. J., Tambini, C. E., Thacker, J. Isolation of novel human and mouse genes of the recA/RAD51 recombination-repair gene family. Nucleic Acids Res. 26: 1653-1659, 1998. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |