

Product datasheet for AP01250PU-N

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OriGene Technologies, Inc.

RAD51D Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: Western Blot: 1/500 - 1/1000.

Immunofluorescence: 1/50 - 1/200.

Immunohistochemistry on paraffin sections 1/50 - 1/200.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to amino acids 121-170 of Human Rad51D.

Specificity: This antibody detects endogenous levels of Rad51D protein. (region surrounding Ala152)

Formulation: Phosphate buffered saline (PBS), pH7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Preservative: 0.05%Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch

Predicted Protein Size: ~ 40 kDa

Gene Name: RAD51 paralog D

Database Link: Entrez Gene 5892 Human

<u>075771</u>





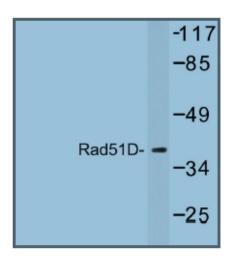
Background:

Rad52 family members (Rad50, Rad51B/C/D, Rad52, Rad54, MRE11) mediate DNA double-strand break repair (DSBR) for DNA damage that otherwise could cause cell death, mutation or neoplastic transformation. Rad51 (RECA, BRCC5) interacts with BRCA1 and BRCA2 to influence subcellular localization and cellular response to DNA damage. BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis from deregulation of Rad51. Rad52 forms a heptameric ring that binds single-stranded DNA ends and catalyzes DNA-DNA interaction necessary for the annealing of complementary strands. Rad52 can interact with Rad51. Rad54A of the DEAD-like helicase superfamily binds to double-strand DNA and induces a DNA topological change, which is thought to facilitate homologous DNA pairing and stimulate DNA recombination. Rad54B of the DEAD-like helicase superfamily binds to double-stranded DNA and displays ATPase activity in the presence of DNA. Rad54B is abundant in testis and spleen, and mutations of this gene occur in primary lymphoma and colon cancer.

Synonyms:

RAD51D, R51H3, RAD51 homolog D, RAD51-like protein 3, TRAD

Product images:



Western blot (WB) analysis of Rad51D antibody in extracts from Jurkat cells.