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Datasheet for ABIN2775215
anti-RAD54B antibody (N-Term)

2 Images

Overview

Quantity:	100 µL
Target:	RAD54B
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Pig, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD54B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human RAD54B
Sequence:	DAVLIVKGKS FILKNLEGKD IGRGIGYKFK ELEKIEEGQT LMICGKEIEV
Predicted Reactivity:	Cow: 86%, Dog: 79%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 79%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against RAD54B. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	RAD54B
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Target Details

Alternative Name: RAD54B ([RAD54B Products](#))

Background: RAD54B belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer. The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer.

Alias Symbols: FSBP, RDH54

Protein Interaction Partner: TCEANC, ATPAF2, ANKRD36BP1, ENKD1, MYO15B, GMCL1, RAD54B, CDC23, SUMO1, PRKAA1, FUS, HECW2, PSMA1, RAD51, NUDT18, NIF3L1, TCEB3, COPS6, SUMO2, UBC, WRN, ZNF580, LNX1, TRAPPC6A, RIBC2, CCDC33, UBE2I, GORASP2, DYRK2, DMC1, CSNK1E, CD2BP2,

Protein Size: 910

Molecular Weight: 103 kDa

Gene ID: 25788

NCBI Accession: [NM_012415](#), [NP_036547](#)

UniProt: [Q9Y620](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 910 AA

Restrictions: For Research Use only

Handling

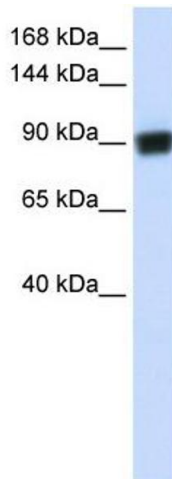
Format: Liquid

Concentration: Lot specific

Handling

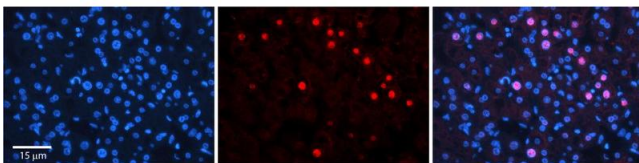
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-RAD54B Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human brain



Immunohistochemistry

Image 2. Rabbit Anti-RAD54B Antibody Formalin Fixed Paraffin Embedded Tissue: Human Adult Liver Observed Staining: Nuclear in hepatocytes, very strong signal, wide tissue distribution Primary Antibody Concentration: 1:100 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 – 2.0 sec Protocol located in Reviews and Data.