

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Rad50 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Rad50 Leu518-Leu881 Accession # Q92878
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Rad50 is a 150 kDa member of the Rad50 subfamily, SMC (structural maintenance of chromosomes) family of DNA-associated genes. It is ubiquitously expressed, and associates with MRE11 and NBS1 to form an MRN complex. This complex stabilizes ATM kinase, thus contributing to DNA repair, and also participates in the suppression of DNA rereplication in dividing cells. Human Rad50 is 1312 amino acids (aa) in length. It has an apparent ATP binding site (aa 36-43) plus a coiled-coil region (aa 228-598) followed by a "zinc-hook" domain (aa 635-734) that mediates homodimerization. There are multiple splice variants. An alternate start site exists at Met140, there is a single Lys substitution for aa 723-1312, and three Lys substitute for aa 555-1312. Over aa 518-881, human Rad50 is 96% aa identical to mouse Rad50.

PRODUCT SPECIFIC NOTICES

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