

Anti-Rad50 Antibody [JE60-04]

HA721492



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|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat |
| Applications: | WB |
| Molecular Wt: | Predicted band size: 154 kDa |
| Clone number: | JE60-04 |

Description: DNA repair protein RAD50, also known as RAD50, is a protein that in humans is encoded by the RAD50 gene. The protein encoded by this gene is highly similar to *Saccharomyces cerevisiae* Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1 (also known as Xrs2 in yeast). This MRN complex (MRX complex in yeast) binds to broken DNA ends and displays numerous enzymatic activities that are required for double-strand break repair by nonhomologous end-joining or homologous recombination. Gene knockout studies of the mouse homolog of Rad50 suggest it is essential for cell growth and viability. Two alternatively spliced transcript variants of Rad50, which encode distinct proteins, have been reported.

Immunogen: Recombinant protein within Human Rad50 aa 1,162-1,312 / 1,312.

Positive control: HeLa cell lysate, K-562 cell lysate, U-87 MG cell lysate, U-937 cell lysate, Caco-2 cell lysate, mouse testis tissue lysate, rat testis tissue lysate.

Subcellular location: Nucleus, Chromosome, telomere.

Database links: SwissProt: Q92878 Human | P70388 Mouse | Q9JIL8 Rat

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

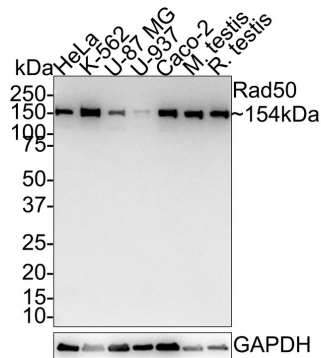
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of Rad50 on different lysates with Rabbit anti-Rad50 antibody (HA721492) at 1/1,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: K-562 cell lysate (20 µg/Lane)
 Lane 3: U-87 MG cell lysate (20 µg/Lane)
 Lane 4: U-937 cell lysate (20 µg/Lane)
 Lane 5: Caco-2 cell lysate (20 µg/Lane)
 Lane 6: Mouse testis tissue lysate (40 µg/Lane)
 Lane 7: Rat testis tissue lysate (40 µg/Lane)

Predicted band size: 154 kDa
 Observed band size: 154 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA721492) at 1/1,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Kissling VM et al. Mre11-Rad50 oligomerization promotes DNA double-strand break repair. *Nat Commun.* 2022 May
2. Beikzadeh M et al. The dynamic nature of the Mre11-Rad50 DNA break repair complex. *Prog Biophys Mol Biol.* 2021 Aug

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