

bsm-52512R**[Primary Antibody]****BioSS**
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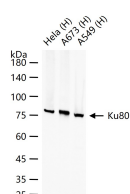
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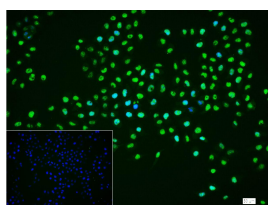
400-901-9800

Ku80 Recombinant Rabbit mAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:50-200) IHC-F (1:50-200) IF (1:50-200) ICC/IF (1:50-200) Reactivity: Human Predicted MW.: 83 kDa Subcellular Location: Nucleus
Clonality: Recombinant	CloneNo.: 1F1	
GeneID: 7520	SWISS: P13010	
Target: Ku80		
Immunogen: A synthesized peptide derived from human Ku80: 700-732/732.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. This gene functionally complements Chinese hamster xrs-6, a mutant defective in DNA double-strand break repair and in ability to undergo V(D)J recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.		

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with Ku80 monoclonal antibody, unconjugated (bsm-52512R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Ku80) monoclonal Antibody, unconjugated (bsm-52512R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

— SELECTED CITATIONS —

- **[IF=preprint]** Dawn T Bravo. et al. Durable reconstitution of sinonasal epithelium by transplant of CFTR gene corrected airway stem cells. biorxiv.2025 Jan 26:2025.01.24.634776. ;. 39896581