

BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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<b>Basic Inform</b>	nation	
<b>Product Name</b>	Anti-RMI2 Antibody	
Gene Name	RMI2	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, IHC-F, ICC, FCM	
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence of human RMI2(KMTDLSDNPIHESMWELEVEDLHRNIP).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	17KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): Immunohistochemistry in frozen section: Immunocytochemistry in fixed cells: Flow cytometry (FCM): (Boiling the paraffin sections in 10mM citrate buffer, paraffin is required for the staining of formalin/paraffin is must be determined by end user.	

## **Storage**

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## **Background Information**

RMI2 is a component of the BLM (RECQL3) complex, which plays a role in homologous recombination-dependent DNA repair and is essential for genome stability. This gene is mapped to 16p13.13. RMI1 and RMI2 were present in approximately stoichiometric amounts with other BLM complex components, including topoisomerase-3-alpha (TOP3A), RPA (see RPA1), and BLAP250. RMI2 also associated with RMI1 and TOP3A in a second complex. RMI1 and RMI2 interacted directly, and both were essential for stability of the BLM complex. Depletion of either RMI1 or RMI2 depleted the other protein by 80 to 90%. Chicken DT40 cells depleted of Rmi2 displayed elevated sister chromatid exchange, but other functions of the BLM complex appeared intact. Mutation analysis revealed that interaction between human RMI2 and BLM was essential for suppression of sister chromatid exchange.

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## **Selected Validation Data**

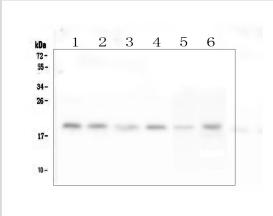


Figure 1. Western blot analysis of RMI2 using anti-RMI2 antibody (A08685). Lane 1: human Hela whole cell lysates,Lane 2: human T-47D whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human K562 whole cell lysates,Lane 5: rat thymus tissue lysates,Lane 6: mouse HEPA1-6 whole cell lysates. anti-RMI2 antigen affinity purified polyclonal antibody (Catalog # A08685)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for RMI2 at approximately 19KD. The expected band size for RMI2 is at 17KD.

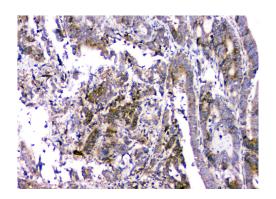


Figure 2. IHC analysis of RMI2 using anti-RMI2 antibody (A08685).RMI2 was detected in paraffin-embedded section of human intestinal cancer tissue. anti-RMI2 Antibody (A08685) . Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

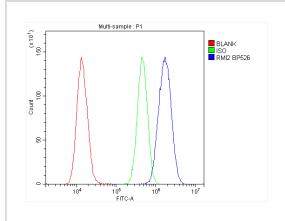


Figure 7. Flow Cytometry analysis of U20S cells using anti- RMI2 antibody (A08685).

Overlay histogram showing U20S cells stained with A08685 (Blue line).anti- RMI2 Antibody (A08685,1 $\mu$ g/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10 $\mu$ g/1x10<sup>6</sup> cells) was used as secondary antibody . Isotype control antibody (Green line) was rabbit IgG (1 $\mu$ g/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.