bs-7723R **[Primary Antibody]**

REC8 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9985 **SWISS:** O95072

Target: REC8

Immunogen: KLH conjugated synthetic peptide derived from human REC8: 22-120/547.

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: Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II.

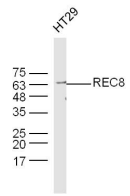
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Dog, GuineaPig, Horse)

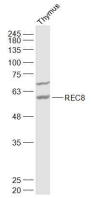
Predicted MW.: 60 kDa

Subcellular Location: Nucleus

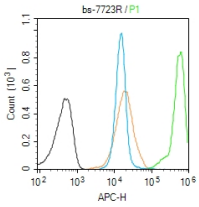
VALIDATION IMAGES



Sample: HT29 Cell (Human) Lysate at 40 ug
Primary: Anti-REC8 (bs-7723R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD
Observed band size: 65 kD



Sample: Thymus (Mouse) Lysate at 40 ug
Primary: Anti-REC8 (bs-7723R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD
Observed band size: 60 kD



Blank control (Black line):Molt4 (Black). Primary Antibody (green line): Rabbit Anti-REC8 antibody (bs-7723R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=6.831]** Shangren Wang. et al. Long noncoding RNAs regulated spermatogenesis in varicocele-induced spermatogenic dysfunction. 2022 Mar 17 WB ;Rat. 35297519
- **[IF=2.7]** Mitsuru Nago. et al.Sod1deficiency in mouse oocytes during in vitro maturation increases chromosome segregation errors with a reduced BUBR1 at kinetochore.REPRODUCTIVE MEDICINE AND BIOLOGY.2025 Jan 22;24(1):e12622. Western blot ;Mouse. 39845481

- **[IF=1.635]** Shimoi G et al.Destabilization of spindle assembly checkpoint causes aneuploidy during meiosis II in murine post-ovulatory aged oocytes.(2018)J Reprod Dev. WB ;Mouse. 30464155