

**bs-7721R****[ Primary Antibody ]****CAPG2 Rabbit pAb****BioSS**  
**ANTIBODIES**

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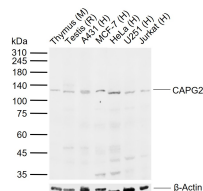
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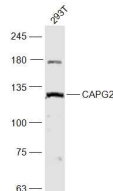
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 54892**SWISS:** Q86XI2**Target:** CAPG2**Immunogen:** KLH conjugated synthetic peptide derived from human CAPG2/NCAPG2: 451-550/1143.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

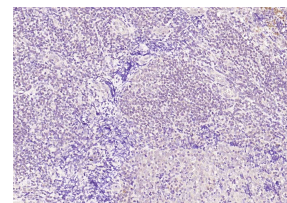
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** NCAPG2 is 1 of 3 non-SMC subunits that define condensin II. Condensin complexes I and II play essential roles in mitotic chromosome assembly and segregation. Both condensins contain 2 invariant structural maintenance of chromosome (SMC) subunits, SMC2 and SMC4, but they contain different sets of non-SMC subunits. NCAPG2 is 1 of 3 non-SMC subunits that defines condensin II.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (2ug/Test)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 131 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

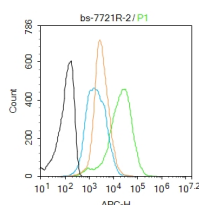
Sample: Lane 1: Mouse Thymus tissue lysates  
 Lane 2: Rat Testis tissue lysates Lane 3: Human A431 cell lysates Lane 4: Human MCF-7 cell lysates Lane 5: Human HeLa cell lysates Lane 6: Human U251 cell lysates Lane 7: Human Jurkat cell lysates  
 Primary: Anti-CAPG2 (bs-7721R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 131 kDa Observed band size: 131 kDa



Sample: 293T(Human) Cell Lysate at 30 ug  
 Primary: Anti-CAPG2 (bs-7721R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 131 kD Observed band size: 131 kD



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CAPG2) Polyclonal Antibody, Unconjugated (bs-7721R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-CAPG2 antibody (bs-7721R) Dilution: 2μg / 10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: 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

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for 20 min at 20°C. 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.

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## — SELECTED CITATIONS —

- **[IF=64.8]** El Yakoubi Warif. et al. Condensin dysfunction is a reproductive isolating barrier in mice. NATURE. 2023 Nov;;1-8 IF,WB ;Mouse. 37914934
- **[IF=8.44]** Wang Wei. et al. Circular RNA circ0001955 promotes cervical cancer tumorigenesis and metastasis via the miR-188-3p/NCAPG2 axis. J TRANSL MED. 2023 Dec;21(1):1-18 IHC,WB ;Human,Mouse. 37248471