

bs-20003R**[Primary Antibody]****RUNX2 Rabbit pAb****BioSS**
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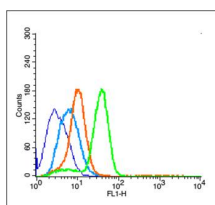
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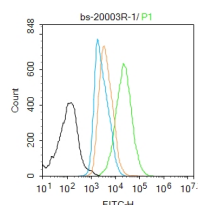
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 860 Target: RUNX2 Immunogen: KLH conjugated synthetic peptide derived from human RUNX2: 201-300/521. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq, Jul 2008].	Isotype: IgG SWISS: Q13950	Applications: Flow-Cyt (1µg/Test) Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Cow, Dog, Horse) Predicted MW.: 57(hu)/67(mo, rat kDa) Subcellular Location: Nucleus
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— VALIDATION IMAGES —

Blank control (blue line): U251 (fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-RUNX2 antibody (bs-20003R), Dilution: 1µg/10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg/test.



Blank control: HL-60. Primary Antibody (green line): Rabbit Anti-RUNX2 antibody (bs-20003R) Dilution: 1µg/10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF488 Dilution: 1µg/test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol 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.

— SELECTED CITATIONS —

- **[IF=7.032]** Mengmeng Liang. et al. Osteoclast-derived small extracellular vesicles induce osteogenic differentiation via inhibiting ARHGAP1. Mol Ther-Nucl Acids. 2021 Mar;23:1191 WB ;Mouse. 33664997
- **[IF=2.626]** Zhao, Gang. et al. LINC02381, a sponge of miR-21, weakens osteogenic differentiation of hUC-MSCs through

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KLF12-mediated Wnt4 transcriptional repression. 2021 Nov 15 WB ;Mouse,Human. 34778905

- **[IF=2.092]** Yuan H et al. MicroRNA let-7c-5p promotes osteogenic differentiation of dental pulp stem cells by inhibiting lipopolysaccharide-induced inflammation via HMGA2/PI3K/Akt signal blockade. Clinical and Experimental Pharmacology and Physiology.2018 doi:10.1111/1440-1681.13059 WB ;Rat. 10.1111/1440-1681.13059