

bsm-52672R**[Primary Antibody]****BioSS**
ANTIBODIES

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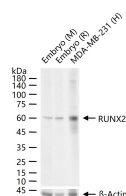
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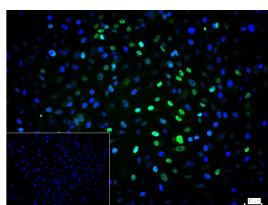
400-901-9800

RUNX2 Recombinant Rabbit mAb**DATASHEET**

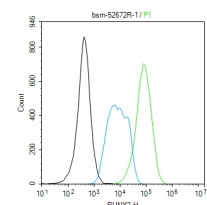
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) Flow-Cyt (1:50-100) ICC/IF (1:100-500) Reactivity: Human, Mouse, Rat Predicted MW.: 57 kDa Observed MW.: 60 kDa Subcellular Location: Nucleus
Clonality: Recombinant	CloneNo.: 8H9	
GeneID: 860	SWISS: Q13950	
Target: RUNX2		
Immunogen: A synthesized peptide derived from human RUNX2: 300-450/521.		
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: 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].		

VALIDATION IMAGES

25 ug total protein per lane of various lysates (see on figure) probed with RUNX2 monoclonal antibody, unconjugated (bsm-52672R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed PC-3 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (RUNX2) monoclonal Antibody, unconjugated (bsm-52672R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) 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.



The PC-3 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-RUNX2 antibody (bsm-52672R, 1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488(bs-60295G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.2]** Jia Gao. et al. Thymosin beta 10 loaded ZIF-8/sericin hydrogel promoting angiogenesis and osteogenesis for bone regeneration. INT J BIOL MACROMOL. 2024 May;267:131562 IHC ;Rat. 38626832
- **[IF=6.8]** Jingxi Xu. et al. Titanium dioxide nanoparticles oral exposure induce osteoblast apoptosis, inhibit osteogenic ability and increase lipogenesis in mouse. ECOTOX ENVIRON SAFE. 2024 Jun;277:116367 WB,ICC,IF ;Mouse. 38669870
- **[IF=4.6]** Xingyao Yang. et al. Exploring plasticisers-osteoporosis links and mechanisms: a cohort and network toxicology study. Frontiers in Toxicology. 2025 Sep;7: WB ;Mouse. 40969353

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=3.6]** Hongjuan Cao. et al. LIPUS promotes osteogenesis via the mcirc_9393-miR-217/326-SIRT1 axis in porous Ti6Al4V scaffolds. BONE. 2025 Dec;201:117647 WB ;Mouse. 40962181