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

RUNX2 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
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].

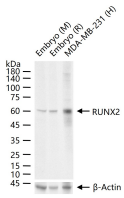
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 57 kDa

Subcellular Location: Nucleus

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.

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