bs-1110R **[Primary Antibody]**

SP7/Osterix Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 121340 **SWISS:** Q8TDD2

Target: SP7/Osterix

Immunogen: KLH conjugated synthetic peptide derived from human SP7: 271-380/431.

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 encodes a member of the Sp subfamily of Sp/XKLF transcription factors. Sp family proteins are sequence-specific DNA-binding proteins characterized by an amino-terminal trans-activation domain and three carboxy-terminal zinc finger motifs. This protein is a bone specific transcription factor and is required for osteoblast differentiation and bone formation.[provided by RefSeq, Jul 2010]

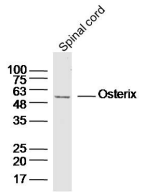
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: Human, Mouse

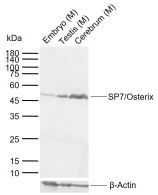
Predicted MW.: 45 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample:Spinal cord (Mouse) Lysate at 40 ug
Primary: Anti-Osterix(bs-1110R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45kD
Observed band size: 50kD



Sample: Lane 1: Mouse Embryo tissue lysates
Lane 2: Mouse Testis tissue lysates Lane 3: Mouse Cerebrum tissue lysates Primary: Anti-SP7/Osterix (bs-1110R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa
Observed band size: 47 kDa

SELECTED CITATIONS

- **[IF=29]** Dan Wang. et al. Gut microbial alterations in arginine metabolism determine bone mechanical adaptation. CELL METAB. 2024 五月 07 WB ;Mouse. 38718794
- **[IF=15.8]** Jiaqian Zheng. et al. Engineered Extracellular Vesicles Derived from Juvenile Mice Enhance Mitochondrial Function in the Aging Bone Microenvironment and Achieve Rejuvenation. ACS NANO. 2025;19(14):13952–13967 IHC ;Mouse. 40183704
- **[IF=10.2]** Chen Xinping. et al. mPPTMP195 nanoparticles enhance fracture recovery through HDAC4 nuclear translocation inhibition. J NANOBIOTECHNOL. 2024 Dec;22(1):1-18 WB ;Mouse. 38760744
- **[IF=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. Bioact Mater. 2021 Jul;6:2039 IF,IHC ;Mouse. 33511306

- **[IF=7.571]** Rui Zhang. et al. Multifunctional silicon calcium phosphate composite scaffolds promote stem cell recruitment and bone regeneration. J MATER CHEM B. 2022 Jun;: IHC ;Rat. 35737023