bs-0019R **[Primary Antibody]**

Osteopontin 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: 6696 **SWISS:** P10451

Target: Osteopontin

Immunogen: KLH conjugated synthetic peptide derived from human OPN: 141-220/314.

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: Osteopontin is the principal phosphorylated glycoprotein of bone and is expressed in a limited number of other tissues including dentine. Osteopontin is produced by osteoblasts under stimulation by calcitriol and binds tightly to hydroxyapatite. It is also involved in the anchoring of osteoclasts to the mineral of bone matrix via the vitronectin receptor, which has specificity for osteopontin. Osteopontin is overexpressed in a variety of cancers, including lung, breast, colorectal, stomach, ovarian, melanoma and mesothelioma.

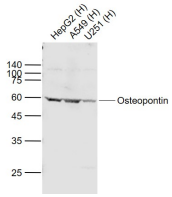
Applications: **WB** (1:500-2000)
IHC-P (1:500-2000)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Rat

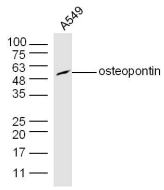
Predicted MW.: 34 kDa

Subcellular Location: Secreted

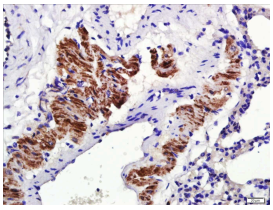
VALIDATION IMAGES



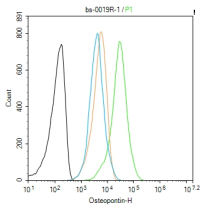
Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Lane 3: U251 (Human) Cell Lysate at 30 ug Primary: Anti-Osteopontin (bs-0052R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60-65 kD Observed band size: 60 kD



Sample: A549 Cell Lysate at 40 ug Primary: Anti-ostepontin (bs-0019R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded Rat lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Osteopontin Polyclonal Antibody, Unconjugated (bs-0019R) at 1:400 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-Osteopontin antibody (bs-0019R) Dilution: 1µg /10^6 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 0.1% PBST for 20 min at

room temperature. 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=5.9]** Tainara C. Michelotti. et al. Subclinical ketosis in postpartum dairy cows alters the adipose tissue immunological profile in a depot-specific manner. FRONT IMMUNOL. 2025 Jun;16: IHC ;Bovine. 40599780
- **[IF=3.8]** Hongrong Zhang. et al. Extracellular matrix of ameloblastoma-derived negatively regulates osteogenic differentiation. ORAL DIS. 2023 Jul;: WB ;Human. 37498913
- **[IF=3.539]** Shunli Feng. et al. SPP1 as a key gene in the lymph node metastasis and a potential predictor of poor prognosis in head and neck carcinoma. J ORAL PATHOL MED. 2022 Jul 13 WB,IHC ;Human. 35822409
- **[IF=3.23]** Liu C, Zhang Y, Wang L, Zhang X, Chen Q, Wu B (2015) A Strontium-Modified Titanium Surface Produced by a New Method and Its Biocompatibility In Vitro. PLoS ONE 10(11): e0140669. WB ;Rat. 26529234
- **[IF=3.08]** Zhan, Fu‐Liang, Xin‐Yang Liu, and Xing‐Bo Wang. "The Role of MicroRNA‐143‐5p in the Differentiation of Dental Pulp Stem Cells into Odontoblasts by Targeting Runx2 via the OPG/RANKL Signaling Pathway." Journal of Cellular Biochemistry (2017). WB ;Human. 28608628