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Anti-Osteopontin SPP1 Rabbit Monoclonal Antibody

Catalog Number: M00634

Overview

Product Name	Anti-Osteopontin SPP1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Osteopontin SPP1 Rabbit Monoclonal Antibody catalog # M00634. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal CEO-19
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P10451

Technical Details

Immunogen	A synthesized peptide derived from human Osteopontin
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200 FC 1:20

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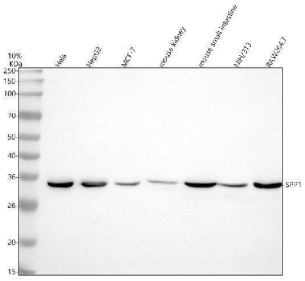
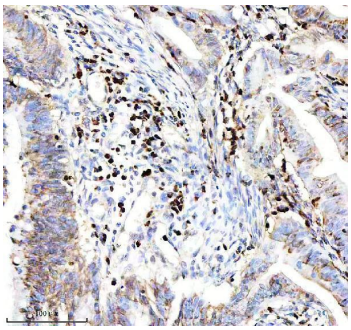
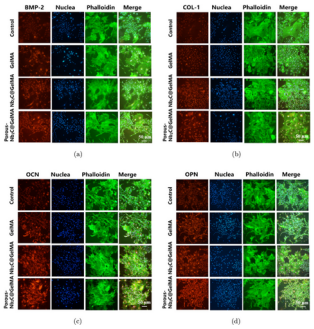
Anti-Osteopontin SPP1 Rabbit Monoclonal Antibody (M00634) Images



Western blot analysis of Osteopontin SPP1 using anti-Osteopontin SPP1 antibody (M00634). Electrophoresis was performed on a 10% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: mouse kidney tissue lysates, Lane 5: mouse small intestine tissue lysates, Lane 6: mouse NIH/3T3 whole cell lysates, Lane 7: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Osteopontin SPP1 antigen affinity purified monoclonal antibody (M00634) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Osteopontin SPP1 at approximately 35 kDa. The expected band size for Osteopontin SPP1 is at 35 kDa.

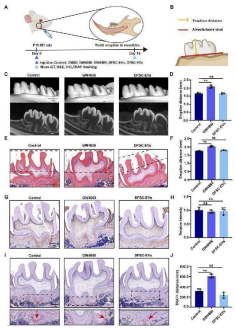


IHC analysis of SPP1 using anti-SPP1 antibody (M00634). SPP1 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-SPP1 Antibody (M00634) overnight:50 at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

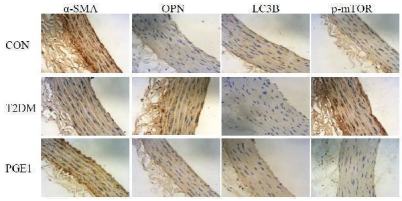


IF staining images of (a) BMP-2, (b) COL-1, (c) OCN, and (d) OPN in BMSCs (red: osteogenic proteins and genes; green: cytoskeleton; blue: nucleus). Index in World Scientific under a CC BY license. DOI: 10.1142/S1793545824420021

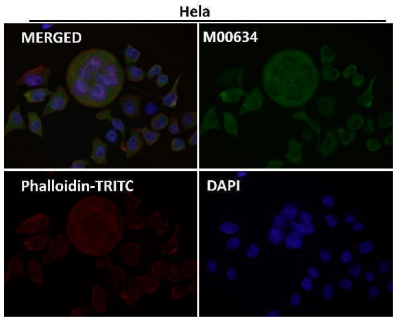
DFSC regulated tooth eruption through EVs. (A) Experimental design and schedule for model construction and result assessment. (B) Methods of measuring tooth



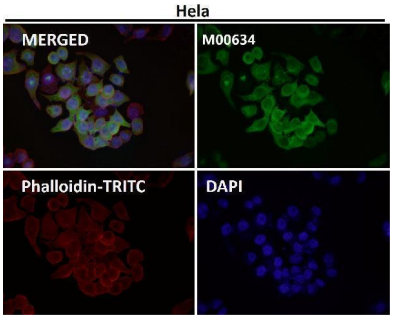
eruption distance. (C) Representative micro-CT images of detecting tooth eruption distance. (D) Analysis of tooth eruption distance based on micro-CT. (E) Representative H&E staining images of the first mandibular molar area. (F) Analysis of tooth eruption distance based on H&E staining. (G) Representative immunohistochemistry staining images of OPN expression in the first mandibular molar area. (H) Quantitative analysis of OPN expression in the first mandibular molar area. (I) Representative images of TRAP staining. (J) Quantitative analysis of TRAP-positive distance. Scale bar = 1 mm ns, not significant. ** p < 0. 01. n = 3.Index in PubMed under a CC BY license. PMID: 39834384



Prostaglandin E1 Inhibited Diabetes-Induced Phenotypic Switching of Vascular Smooth Muscle Cells Through Activating Autophagy. -Cellular Physiology and Biochemistry



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

2 Publications Citing This Product

1. PubMed ID: 23608377, Expression of NF-kappaB and osteopontin of synovial fluid of patients with knee osteoarthritis

2. PubMed ID: 26078764, Effects of Naringin on Proliferation and Osteogenic Differentiation of Human Periodontal Ligament Stem Cells In Vitro and In Vivo

Visit bosterbio.com/anti-osteopontin-rabbit-monoclonal-antibody-m00634-boster.html to see all 2 publications.

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