

Osteopontin Rabbit mAb

Catalog No.: A29089**Recombinant**

Basic Information

Observed MW

58-75 kDa

Calculated MW

32 kDa

Category

Monoclonal Antibodies

Applications

WB, IF/ICC, IF-F, IHC-P, IP, ELISA

Cross Reactivity

Mouse, Rat

Clone No.

ARC3919

Background

Enables extracellular matrix binding activity and integrin binding activity. Involved in bone mineralization and calcium ion homeostasis. Acts upstream of or within several processes, including cellular response to leukemia inhibitory factor; intracellular chloride ion homeostasis; and intracellular monoatomic cation homeostasis. Located in apical part of cell and cytoplasm. Is expressed in several structures, including alimentary system; brain; metanephros; sensory organ; and skeleton. Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); biliary atresia; coronary artery disease (multiple); disease of cellular proliferation (multiple); and hepatitis. Orthologous to human SPP1 (secreted phosphoprotein 1).

Recommended Dilutions

WB 1:2000 - 1:10000**IF/ICC** 1:200 - 1:400**IF-F** 1:200 - 1:400**IHC-P** 1:400 - 1:1600**IP**

0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells

ELISA

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

20750

Swiss-Prot

P10923

Immunogen

This information is considered to be commercially sensitive.

Synonyms

OP; 2AR; Bsp; Eta; Opn; Ric; BNSP; BSPI; Opnl; Apl-1; ETA-1; Spp-1

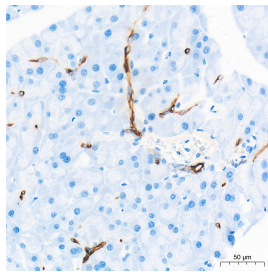
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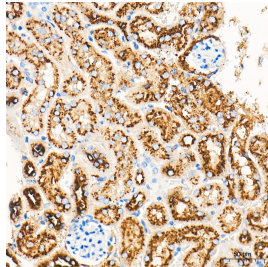
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C		

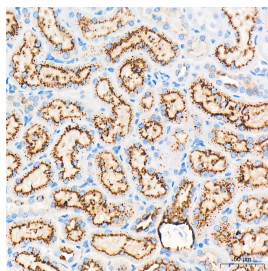
Validation Data



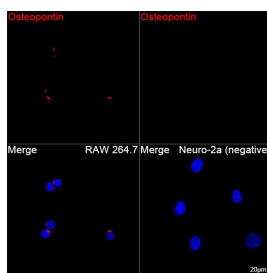
Immunohistochemistry analysis of paraffin-embedded Mouse pancreas tissue using Osteopontin Rabbit mAb (A29089) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



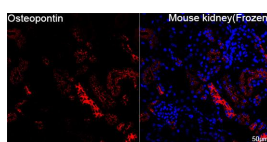
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Osteopontin Rabbit mAb (A29089) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



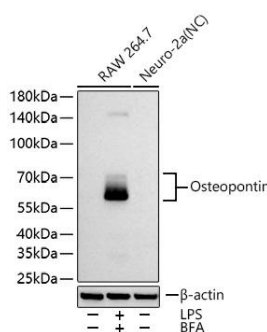
Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Osteopontin Rabbit mAb (A29089) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of RAW 264.7 cells and Neuro-2a cells (negative) using Osteopontin Rabbit mAb (A29089, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Mouse kidney tissue using Osteopontin Rabbit mAb (A29089, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Western blot analysis of lysates from RAW 264.7 cells using Osteopontin Rabbit mAb (A29089) at 1:5000 dilution incubated overnight at 4°C. RAW 264.7 cells were treated with LPS (100 ng/mL) at 37°C for 6 hours and BFA (300 ng/mL) at 37°C for 3 hours after serum starvation overnight.

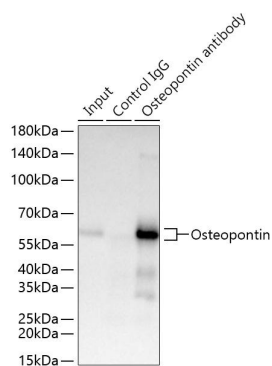
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.



Immunoprecipitation of Osteopontin from 300 µg extracts of RAW 264.7 cells treated with LPS (100 ng/mL, 6 hours) and BFA (300 ng/mL, 3 hours) was performed using 2 µg of Osteopontin Rabbit mAb (A29089). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Osteopontin Rabbit mAb (A29089) at a dilution of 1:2000.