## For Research Use Only

## Osteopontin Polyclonal antibody

Catalog Number: 32601-1-AP



**Basic Information** 

Catalog Number: GenBank Accession Number:

32601-1-AP NM 012881.2 GeneID (NCBI):

150ul , Concentration: 500 ug/ml by

Nanodrop: **UNIPROT ID:** P08721 Rabbit Full Name:

Isotype: secreted phosphoprotein 1

IgG Calculated MW: Immunogen Catalog Number: 35 kDa EG3247

Observed MW:

60 kDa

**Applications** 

**Tested Applications:** 

WB, ELISA

Species Specificity:

mouse, rat

Positive Controls:

WB: RAW 264.7 cells, LPS and Brefeldin A treated RAW

**Purification Method:** 

WB: 1:500-1:2000

Antigen affinity Purification

Recommended Dilutions:

264.7 cells

## **Background Information**

Osteopontin (OPN) is also named as 2AR, minopontin, bone sialoprotein 1, Spp1, Eta-1 and Op, and belongs to the osteopontin family. Osteopontin is major non-collagenous bone protein that binds tightly to hydroxyapatite. It is a highly phosphorylated glycophosphoprotein having acidic characteristics and rich in aspartic acid (PMID: 30003880). And it acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity (PMID:2351930, PMID:10657301). OPN, a multifunctional protein, has important functions on cardiovascular diseases, cancer, diabetes and kidney stone diseases and in the process of inflammation, biomineralization, cell viability and wound healing (PMID: 30003880). Osteopontin (OPN) is a pleiotropic glycoprotein expressed in various cell types in animals and in humans, including bone, immune, smooth muscle, epithelial and endothelial cells. Moreover, OPN is found in kidneys (in the thick ascending limbs of the loop of Henle and in distal nephrons) and urine (PMID:30456594). Osteopontin (OPN) is an acidic 60-70 kDa glycoprotein that is cleaved by proteases to yield 45-kDa and 24-kDa fragments (PMID: 10491621, PMID: 1995615)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

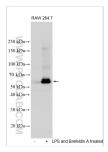
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

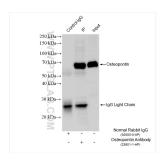
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

## Selected Validation Data



Non-treated and LPS and Brefeldin A treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 32601-1-AP (Osteopontin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-Osteopontin (IP:32601-1-AP, 4ug; Detection:32601-1-AP 1:1000) with LPS and Brefeldin A treated RAW 264.7 cells lysate 2120 ug.