

## Anti-Osteopontin/SPP1 Antibody Picoband® FITC Conjugated

Catalog Number: RP1080-FITC

### About SPP1

Osteopontin (OPN), also known as secreted phosphoprotein 1 (SPP1), is a protein that in humans is encoded by the SPP1 gene (secreted phosphoprotein 1). The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. And the encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. Also, this protein is a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.

### Overview

Product Name	Anti-Osteopontin/SPP1 Antibody Picoband® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P10451

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Osteopontin, different from the related mouse sequence by eight amino acids, and from the related rat sequence by seven amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 10 Publications Citing This Product

1. PubMed ID: 33650080, Li X,Hu B,Wang L,Xia Q,Ni X. P2X7 receptor-mediated phenotype switching of pulmonary artery smooth muscle cells in hypoxia. Mol Biol Rep.2021 Mar 1.doi:10.1007/s11033-021-06222-2. Epub ahead of print.PMID:33650080.
2. PubMed ID: -, Caiyun Mu,Ye He,Yan Hu,Menghuan Li,Maowen Chen,Rong Wang,Yang Xiang, Zhong Luo,Kaiyong Cai,Construction of chemokine substance P-embedded biomimetic multilayer onto bioactive magnesium silicate-titanium implant for bone regeneration,Applied Materials Today
3. PubMed ID: -, Chaowei Hu,Kun Zuo,Kuibao Li,Yuanfeng Gao,Mulei Chen,Roumu Hu,Ye Liu,Hongjie Chi,Hongjiang Wang,Yanwen Qin,Xiaoyan Liu,Jiuchang Zhong,Jun Cai,Xinchun Yang,Jing Li, "p38/JNK Is Required for the Proliferation and Phenotype Changes of Vascular Smooth Muscle

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