

ARG44742
anti-Osteopontin antibodyPackage: 50 µg
Store at: -20°C

Summary

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| Product Description | Mouse Monoclonal antibody recognizes Osteopontin |
| Tested Reactivity | Hu |
| Tested Application | IP, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG2a |
| Target Name | Osteopontin |
| Species | Human |
| Conjugation | Un-conjugated |
| Alternate Names | BSPI; ETA-1; Uropontin; Osteopontin; Nephropontin; SPP-1; Bone sialoprotein 1; BNSP; Urinary stone protein; OPN; Secreted phosphoprotein 1 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------|
| | IP | 10 µg/mL |
| | WB | 1 µg/mL |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

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| Form | Liquid |
| Purification | Protein A purification |
| Buffer | PBS with 0.09% sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|---------------------------|
| Gene Symbol | SPP1 |
| Gene Full Name | secreted phosphoprotein 1 |

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|------------------------------|--|
| Background | The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. 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. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011] |
| Function | Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. 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. [UniProt] |
| Calculated Mw | 52 kDa |
| Cellular Localization | Cytoplasm |