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32-6550: SPP1 Human, Active

Application :	Functional Assay
Alternative Name :	OPN, SPP-1, BNSP, BSPI, ETA-1, Bone sialoprotein 1, BSP I.Early T lymphocyte activation 1, ETA 1, ETA1, MGC110940, Nephropontin, Secreted phosphoprotein 1, SPP 1, SPP1, urinary stone protein, uropontin.

Description

Source: Escherichia Coli.
Sterile Filtered clear colorless solution.
Osteopontin is a glycoprotein that was primarilyfound in osteoblasts and takes part in bone remodeling, immune functions in fibroblasts, macrophages, & lymphocytes during inflammation and wound healing. SPP1 highlybinds to hydroxyapatite. SPP1 forms an integral part of the mineralized matrix. SPP1 is vital to cell-matrix interaction. Secreted Phosphoprotein-1 protects against cardiac ischemia-reperfusion injury through late preconditioning. Expression of Ostepontin and CD44 in hepatocellular carcinoma is linked to advanced tumor stage &leads to prognosis information. SPP1 is the most over-expressed gene in intrahepatic cholangiocarcinoma. Secreted Phosphoprotein-1 overexpression is related with interstitial lung diseases.
SPP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 321 amino acids (17-314 a.a.) and having a molecular mass of 36.2kDa. SPP1 is fused to a 23 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The SPP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT, 10% glycerol and 2mM EDTA.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH RSMIPVKQAD SGSSEEKQLY NKYPDAVATW LNPDPSQKQN LLAPQNAVSS EETNDFKQET LPSKSNESHD HMDDMDDEDD DDHVDSQDSI DSNDSDDVDD TDDSHQSDES HHSDESDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIPVAQDLNA PSDWDSRGKD SYETSQLDDQ SAETHSHKQS RLYKRKANDE SNEHSDVIDS QELSKVSREF HSHEFHSHED MLVVDPKSKE EDKHLKFRIS HELDSASSEV N.

Application Note

Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When cells are added to OPN coated plates 10ug/ml. This effect is more to 40%.