Active Recombinant Mouse Spp1 Protein, His-tagged

Cat. No. Spp1-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Osteopontin (17-294aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
ProteinLength	17-294aa
Description	Major non-collagenous bone protein that binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.
Form	Liquid
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When cells are added to mouse SPP1 coated plates. The ED50 range ≤ 1.5 μg/mL.
Molecular Mass	31.8 kDa (287aa)
AA Sequence	LPVKVTDSGSSEEKLYSLHPDPIATWLVPDPSQKQNLLAPQNAVSSEEKDDFKQETL PSNSNESHDHMDDDDDDDDDDGDHAESEDSVDSDESDESHHSDESDETVTASTQ ADTFTPIVPTVDVPNGRGDSLAYGLRSKSRSFQVSDEQYPDATDEDLTSHMKSGES

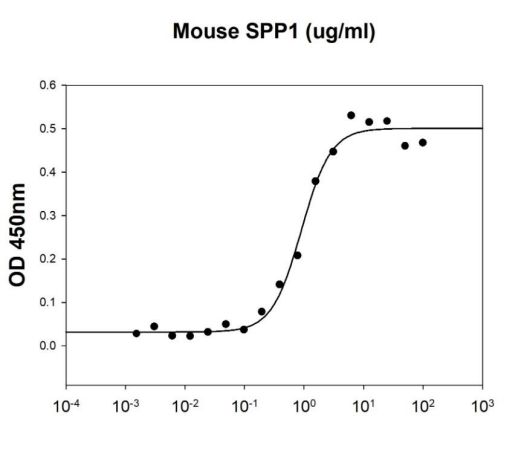
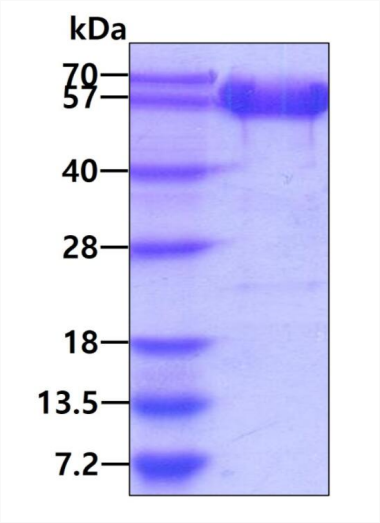
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	KESLDVIPVAQLLSMPSDQDNNGKGSHESSQLDEPSLETHRLEHSKESQESADQSD VIDSQASSKASLEHQSHKFHSHKDKLVLDPKSKEDDRYLKFRISHELESSSSEVN
Purity	> 90% by SDS-PAGE
Unit Definition	< 1 EU/μg of protein (determined by LAL method)
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	Spp1 secreted phosphoprotein 1 [Mus musculus (house mouse)]
Official Symbol	Spp1
Synonyms	Spp1; secreted phosphoprotein 1; OP; 2AR; Bsp; Eta; Opn; Ric; BNSP; BSPI; Opnl; Apl-1; ETA-1; Spp-1; osteopontin; 44 kDa bone phosphoprotein; bone sialoprotein 1; calcium oxalate crystal growth inhibitor protein; early T-lymphocyte activation 1 protein; minopontin; osteopontin-like protein
Gene ID	20750
mRNA Refseq	NM_009263

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Protein Refseq	NP_033289
UniProt ID	P10923
Biological Activity	 Mouse SPP1 stimulates cell adhesion of the HEK293 human embryonic kidney cells. The ED50 range ≤ 1.5 μg/mL.
SDS-PAGE	

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	3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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