

Rat Osteopontin protein, His tag (active)

Cat. No. GTX00349-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

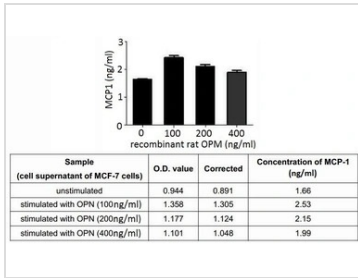
Osteopontin (OPN), a multifunctional phosphorylated glycoprotein, plays an important role in neutrophil recruitment and was found to induce the expression of proinflammatory chemokines including MCP-1 and MIP-1 β which promote migration and recruitment of inflammatory cells. It has been reported that OPN induces MCP-1 expression through the NF-kappa B pathways in MCF-7 breast cancer cell line. Briefly, MCF-7 cells were seeded overnight at a density of 1×10^5 cells/ml, and treated with or without various concentrations of OPN for 24h and MCP-1 levels in the cell supernatant were determined by ELISA. MCP-1 levels in the cell supernatant of MCF-7 cells increased significantly after stimulated with OPN.

Observed MW (kDa) 60 kDa.

Properties

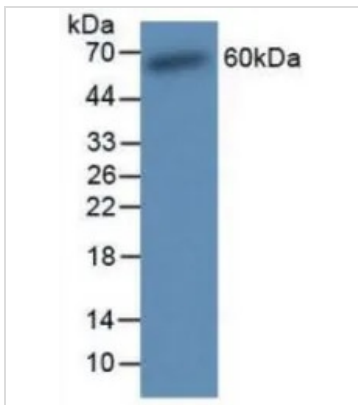
Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Leu17~Asn317 (NP_037013.2)**Expression System** HEK293 cells**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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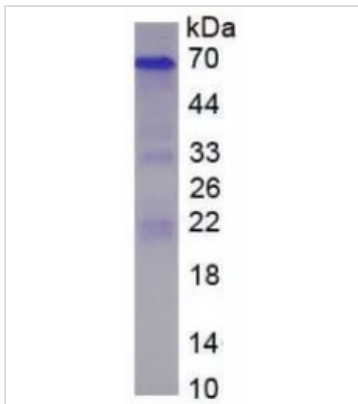
DATA IMAGES

GTX00349-pro Functional Assay Image

ELISA detection of secreted MCP-1 protein activation from MCF-7 cells induced by GTX00349-pro Rat Osteopontin protein (active) for 24hrs.

Recombinant protein concentrations: 100, 200, and 400 ng/ml.


GTX00349-pro Image

WB analysis of GTX00349-pro Rat Osteopontin protein (active).


GTX00349-pro Image

SDS-PAGE analysis of GTX00349-pro Rat Osteopontin protein (active).



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