

Rat Osteopontin protein, His tag (active)

Cat. No. GTX00349-pro

Applications	Functional Assay
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Species	Rat
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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.
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Properties

Form	Lyophilized powder
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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.
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Preservative	ProClin 300
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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.
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Region/Sequence	N-terminal His-Tag; Leu17~Asn317 (NP_037013.2)
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Expression System	HEK293 cells
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Purity	> 95%
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Endotoxin	< 1 EU/µg
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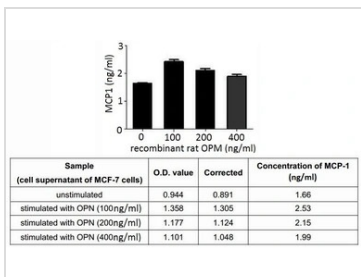
Conjugation	Unconjugated
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Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
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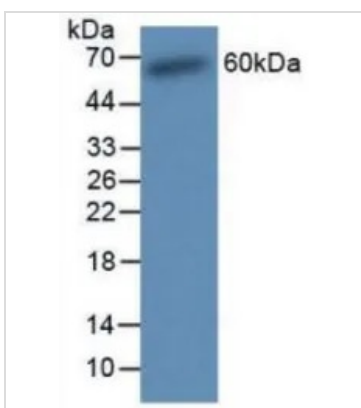
DATA IMAGES



GTX00349-pro Functional Assay Image

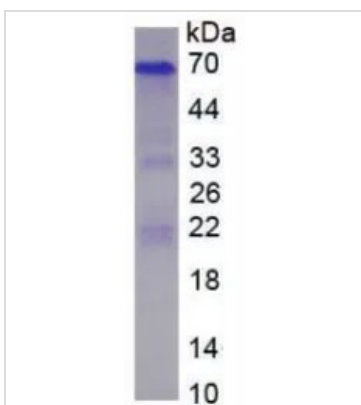
ELISA detection of secreted MCP-1 protein activation from MCF-7 cells induced by GTX00349-pro Rat Osteopontin protein (active) for 24hrs.

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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