

Rat IL6 protein, His tag (active)

Cat. No. GTX00341-pro

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

10 µg

Applications

Application Note

Interleukin-6 (IL-6), a pro-inflammatory cytokine and an anti-inflammatory myokine, plays important roles in the acute phase reaction, inflammation, hematopoiesis, bone metabolism, and cancer progression. It has been reported that IL-6 significantly increased the MMP-10 protein level in the human lung cancer A549 cells through the JAK/STAT signaling pathway. Briefly, A549 cells were seeded into 6-well cell culture clusters and allowed to grow to 50-70% confluence, then different concentrations of IL-6 was added. After incubated for 24h, the protein levels of MMP-10 in the cell supernatant were determined by Western blot. MMP-10 protein level significantly increased in A549 cells due to the stimulation of IL-6.

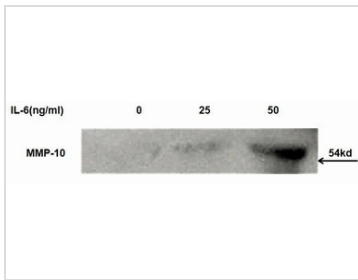
Observed MW (kDa) 27 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.6), 5% Trehalose.**Preservative** No preservatives**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; Phe25~Thr211 (NP_036721.1)**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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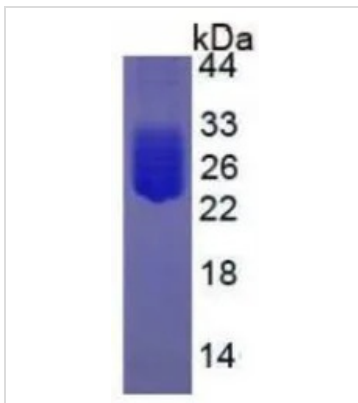
DATA IMAGES



GTX00341-pro Functional Assay Image

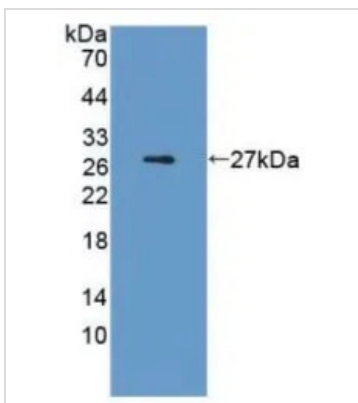
ELISA detection of secreted MMP10 protein activation from A549 cells induced by GTX00341-pro Rat IL6 protein (active) for 24hrs.

Recombinant protein concentrations: 25, and 50 ng/ml.



GTX00341-pro Image

SDS-PAGE analysis of GTX00341-pro Rat IL6 protein (active).



GTX00341-pro Image

WB analysis of GTX00341-pro Rat IL6 protein (active).



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