Dog IL6 protein, His tag (active)

Cat. No. GTX00077-pro

Applications	Functional Assay
Species	Dog

Package
10 µg

Applications

Application Note

Cell proliferation of Raji cells after stimulated with IL6. Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. Interleukin 6 is secreted by T cells and macrophages to stimulate immune response and also plays a role in fighting infection. It supports the growth of B cells and is antagonistic to regulatory T cells. To test the effect of IL6 on cell proliferation, Raji cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with 1% serum standard RPMI-1640 which contains various concentrations of recombinant dog IL6. After incubated for 5 days, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of Raji cells after incubation with IL6 for 5 days observed by inverted microscope.

Observed MW (kDa)	25 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; Ala18~Met207 (NP_001003301.1)
Expression System	E. coli
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.

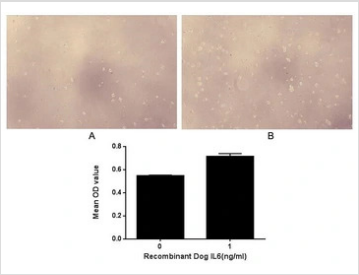
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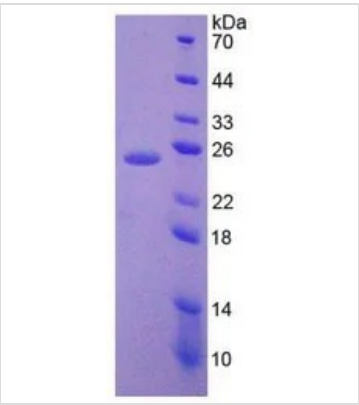
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DATA IMAGES



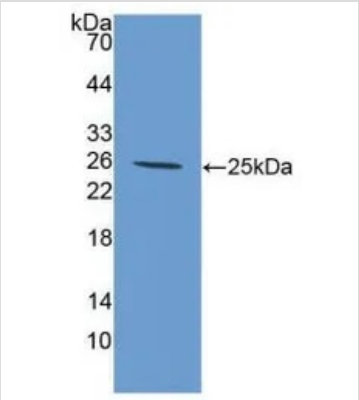
GTX00077-pro Functional Assay Image

Cell proliferation effect of GTX00077-pro Dog IL6 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).
(A) Unstimulated Raji cells cultured in RPMI-1640 for 5 days.
(B) Raji cells cultured in RPMI-1640, stimulated with 1 ng/ml IL6 for 5 days.



GTX00077-pro Image

SDS-PAGE analysis of GTX00077-pro Dog IL6 protein (active).



GTX00077-pro Image

WB analysis of GTX00077-pro Dog IL6 protein (active).

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