

## LILRB4/CD85k/ILT3 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P72519
<b>Synonyms:</b>	Leukocyte immunoglobulin-like receptor subfamily B member 4; CD85k; Lilrb4; Gp49b
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q8NHJ6 (Q22-E259)
<b>Gene ID:</b>	11006
<b>Molecular Weight:</b>	Approximately 37 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> Q A G P L P K P T L   W A E P G S V I S W   G N S V T I W C Q G   T L E A R E Y R L D K E E S P A P W D R   Q N P L E P K N K A   R F S I P S M T E D   Y A G R Y R C Y Y R S P V G W S Q P S D   P L E L V M T G A Y   S K P T L S A L P S   P L V T S G K S V T L L C Q S R S P M D   T F L L I K E R A A   H P L L H L R S E H   G A Q Q H Q A E F P M S P V T S V H G G   T Y R C F S S H G F   S H Y L L S H P S D   P L E L I V S G S L E D P R P S P T R S   V S T A A G P E D Q   P L M P T G S V P H   S G L R R H W E           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>LILRB4/CD85k/ILT3, an inhibitory receptor, plays a pivotal role in immune regulation and the establishment of immune tolerance. Functioning as a receptor for FN1, apolipoprotein APOE, and ALCAM/CD166, this protein is involved in diverse cellular processes. It inhibits receptor-mediated phosphorylation of cellular proteins and the mobilization of intracellular calcium ions, and it further down-regulates FCGR1A/CD64-mediated monocyte activation, leading to reduced TNF production. Additionally, LILRB4/ILT3 impedes T cell proliferation, inducing anergy, suppressing the differentiation of IFNG-producing CD8+ cytotoxic T cells, and promoting the generation of CD8+ T suppressor cells. It induces the up-regulation of</p>
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CD86 on dendritic cells and interferes with TNFRSF5-signaling and NF-kappa-B up-regulation. The inhibitory effects are at least partially mediated through interactions with FN1 and the phosphatase PTPN6.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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