LILRB4/CD85k/ILT3 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77744
Synonyms:	HM18; ILT3; ILT-3; LILRB4; LIR5; CD85K
Species:	Human
Source:	HEK293
Accession:	Q8NHJ6 (Q22-H257)
Gene ID:	11006
Molecular Weight:	35-45 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When immobilized Anti-LILRB4 Antibody at 1μg/ml (100μl/Well), can bind Biotinylated Human LILRB4 and the EC_{50} is < 10 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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 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.

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

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