LILRB4/CD85k/ILT3 Protein, Human (Biotinylated, 141a.a, HEK293, His-Avi)

Cat. No.:	HY-P701018
Synonyms:	HM18; ILT3; ILT-3; LILRB4; LIR5; CD85K
Species:	Human
Source:	HEK293
Accession:	AAH26309.1 (G119-E259)
Gene ID:	11006
Molecular Weight:	32-45 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	LILRB4/CD85k/ILT3, an inhibitory receptor intricately involved in immune regulation, plays a crucial role in down-regulating immune responses. It serves as a receptor for FN1 and integrin ITGAV/ITGB3, exerting inhibitory effects on IgE-mediated mast cell activation and KITLG/SCF-mediated mast cell activation. Through its interaction with ITGAV/ITGB3, LILRB4/ILT3 further inhibits antibody production by memory and marginal zone B cells, likely by suppressing their differentiation into plasma cells. This multifaceted receptor extends its inhibitory influence to diverse immune functions, such as suppressing IFNG production by CD8 T cells, CD4 T cells, and natural killer cells, as well as inhibiting antigen presentation by dendritic cells to T cells, preventing T cell activation. Additionally, LILRB4/ILT3 effectively inhibits lipopolysaccharide-mediated neutrophil-dependent vascular injury and contributes to the suppression of the allergic inflammatory response by impeding the infiltration of neutrophils and eosinophils while preventing mast cell degranulation. Its interactions, particularly when tyrosine phosphorylated, with SH2 domain-containing phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 enhance the inhibition of mast cell activation.

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

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