10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-LILRB4 / ILT3 / CD85k Reference Antibody (Rolistobart)

Catalog # APR11235

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q8NHJ6
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP
Calculated MW	49356

Additional Information

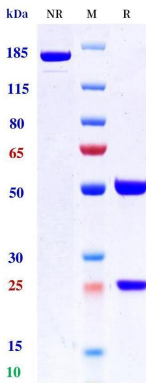
Target/Specificity	LILRB4 / ILT3 / CD85k
Expression system	CHO

Protein Information

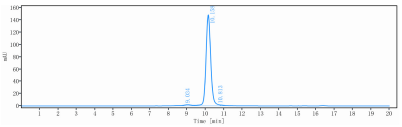
Name	LILRB4
Synonyms	ILT3, LIR5
Function	Inhibitory receptor involved in the down-regulation of the immune response and the development of immune tolerance (PubMed:11875462). Receptor for FN1 (PubMed:34089617). Receptor for apolipoprotein APOE (PubMed:30333625). Receptor for ALCAM/CD166 (PubMed:29263213). Inhibits receptor-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:9151699). Inhibits FCGR1A/CD64-mediated monocyte activation by inducing phosphatase-mediated down-regulation of the phosphorylation of multiple proteins including LCK, SYK, LAT and ERK, leading to a reduction in TNF production (PubMed:19833736). This inhibition of monocyte activation occurs at least in part via binding to FN1 (PubMed:34089617). Inhibits T cell proliferation, inducing anergy, suppressing the differentiation of IFNG-producing CD8+ cytotoxic T cells and enhancing the generation of CD8+ T suppressor cells (PubMed:16493035, PubMed:19833736, PubMed:29263213). Induces up- regulation of CD86 on dendritic cells (PubMed:19860908). Interferes with TNFRSF5-signaling and NF-kappa-B up-regulation (PubMed:11875462).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=Ligand binding leads to internalization and translocation to an antigen-processing compartment
Tissue Location	Detected on monocytes, macrophages, dendritic cells, natural killer cells and

B-cells (at protein level). Expressed in the lung.

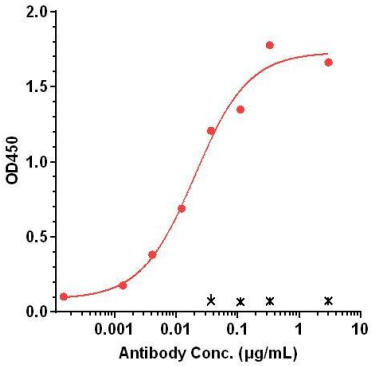
Images



Anti-LILRB4 / ILT3 / CD85k Reference Antibody (Rolistobart) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-LILRB4 / ILT3 / CD85k Reference Antibody (Rolistobart) is 96.4%, determined by SEC-HPLC.



Immobilized hu-LILRB4-chis at 2 μg/mL can bind Rolistobart, EC50= 0.02014 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.