

Anti-IL-10R α Reference Antibody (Synthekine patent anti-IL-10RA)

Catalog # APR11435

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q13651
Reactivity	Human
Clonality	Monoclonal
Isotype	C6His
Calculated MW	63003

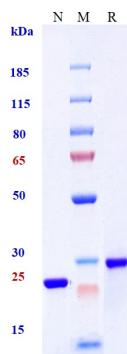
Additional Information

Target/Specificity	IL-10R α
Expression system	CHO

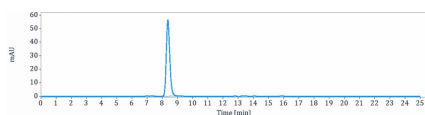
Protein Information

Name	IL10RA
Synonyms	IL10R
Function	Cell surface receptor for the cytokine IL10 that participates in IL10-mediated anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Upon binding to IL10, induces a conformational change in IL10RB, allowing IL10RB to bind IL10 as well (PubMed:16982608). In turn, the heterotetrameric assembly complex, composed of two subunits of IL10RA and IL10RB, activates the kinases JAK1 and TYK2 that are constitutively associated with IL10RA and IL10RB respectively (PubMed:12133952). These kinases then phosphorylate specific tyrosine residues in the intracellular domain in IL10RA leading to the recruitment and subsequent phosphorylation of STAT3. Once phosphorylated, STAT3 homodimerizes, translocates to the nucleus and activates the expression of anti-inflammatory genes. In addition, IL10RA-mediated activation of STAT3 inhibits starvation-induced autophagy (PubMed:26962683).
Cellular Location	Cell membrane; Single-pass type I membrane protein Cytoplasm
Tissue Location	Primarily expressed in hematopoietic cells including B-cells, T-cells, NK cells, monocytes and macrophages. Not expressed in non-hematopoietic cells such as fibroblasts or endothelial cells

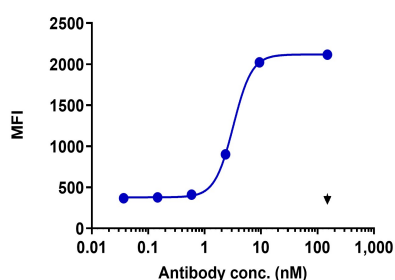
Images



Anti-IL-10R α Reference Antibody (Synthekine patent anti-IL-10RA) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-IL-10R α Reference Antibody (Synthekine patent anti-IL-10RA) is 100%, determined by SEC-HPLC.



PLVX-puro-IL-10R α -FL cell line were stained with Synthekine patent anti-IL-10RA and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 3.215 nM.

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