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Anti-IL-5 Reference Antibody (mepolizumab)

Recombinant Antibody
Catalog # APR10050

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P05113
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	15238

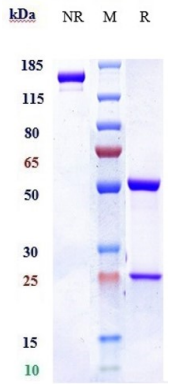
Additional Information

Target/Specificity	IL-5
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

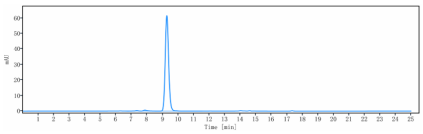
Protein Information

Name	IL5
Function	Homodimeric cytokine expressed predominantly by T-lymphocytes and NK cells that plays an important role in the survival, differentiation, and chemotaxis of eosinophils (PubMed:2653458, PubMed:9010276). Also acts on activated and resting B-cells to induce immunoglobulin production, growth, and differentiation (By similarity). Mechanistically, exerts its biological effects through a receptor composed of IL5RA subunit and the cytokine receptor common subunit beta/CSF2RB (PubMed:1495999, PubMed:22528658). Binding to the receptor leads to activation of various kinases including LYN, SYK and JAK2 and thereby propagates signals through the RAS-MAPK and JAK-STAT5 pathways respectively (PubMed:7613138).
Cellular Location	Secreted.
Tissue Location	Present in peripheral blood mononuclear cells.

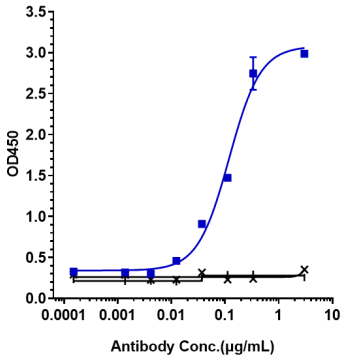
Images



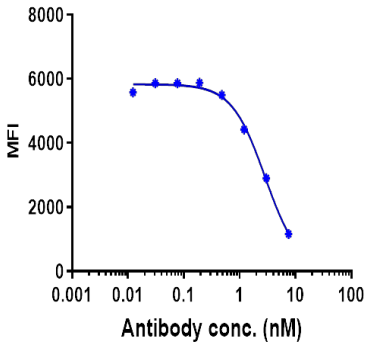
Anti-IL-5 Reference Antibody (mepolizumab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



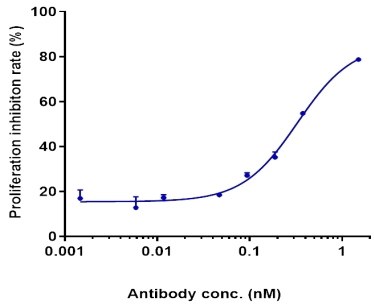
The purity of Anti-IL-5 Reference Antibody (mepolizumab) is 98.47%, determined by SEC-HPLC.



Immobilized human IL 5 His at 2 ug/mL can bind Anti-IL-5 Reference Antibody (mepolizumab), EC50=0.1188 ug/mL.



Anti-IL-5 Reference Antibody (mepolizumab) FACS Blocking was evaluated using Human IL-5Rβ-FL/HIL-5Rα CHOS. The IC50 was approximately 2.844 ug/mL.



Mepolizumab induced proliferation inhibition activity was evaluated using Human IL-5Rα TF-1 . The EC50 was approximately 0.3282 ug/mL.

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