

Anti-IL-5 Reference Antibody (mepolizumab)

Recombinant Antibody
Catalog # APR10050

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	P05113
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	15238

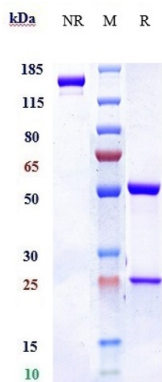
Additional Information

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

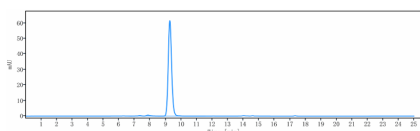
Protein Information

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.

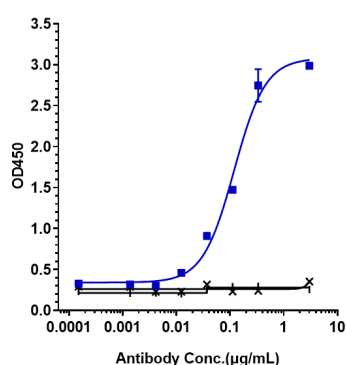
Images



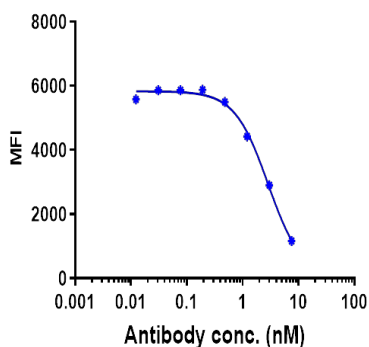
Anti-IL-5 Reference Antibody (mepolizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



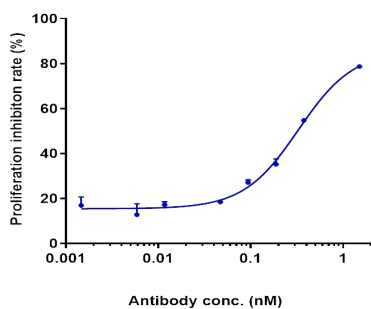
The purity of Anti-IL-5 Reference Antibody (mepolizumab) is more than 98.47%, determined by SEC-HPLC.



Immobilized human IL-5 His at 2 μg/mL can bind Anti-IL-5 Reference Antibody (mepolizumab), $EC_{50}=0.1188$ μg/mL



Anti-IL-5 Reference Antibody (mepolizumab) FACS Blocking was evaluated using Human IL-5Rβ-FL/HIL-5Rα CHOS. The IC_{50} was approximately 2.844 μg/mL.



Mepolizumab induced proliferation inhibition activity was evaluated using Human IL-5Rα TF-1. The EC_{50} was approximately 0.3282 μg/mL.

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