

**Anti-IL-5 Reference Antibody (mepolizumab)
Recombinant Antibody
Catalog # APR10050****Specification**

Anti-IL-5 Reference Antibody (mepolizumab) - Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	P05113
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	146.24 KDa

Anti-IL-5 Reference Antibody (mepolizumab) - Additional Information**Target/Specificity**

IL-5

Endotoxin

< 0.001EU/ µg,determined by LAL method.

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.

Anti-IL-5 Reference Antibody (mepolizumab) - 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.

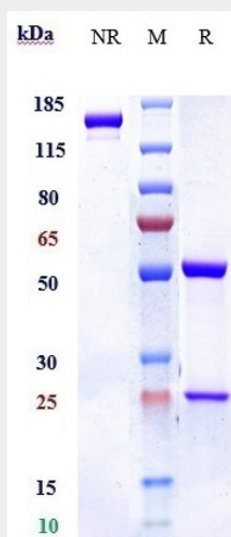
Tissue Location
Present in peripheral blood mononuclear cells.

Anti-IL-5 Reference Antibody (mepolizumab) - Protocols

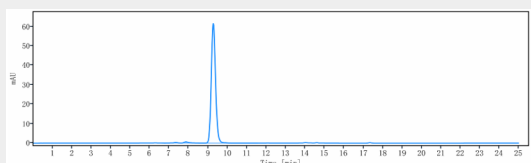
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

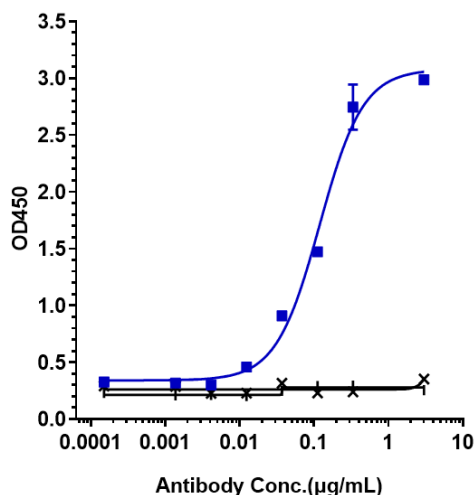
Anti-IL-5 Reference Antibody (mepolizumab) - Images



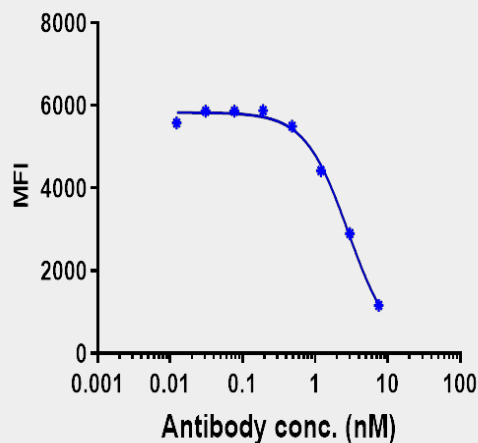
Anti-IL-5 Reference Antibody (mepolizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



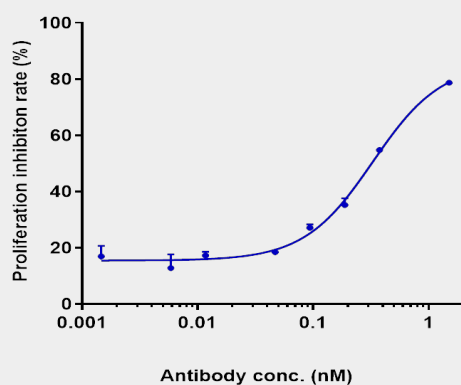
The purity of Anti-IL-5 Reference Antibody (mepolizumab) is more than 98.47%, determined by SEC-HPLC.



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-5R β -FL/HIL-5R α CHOS. The IC_{50} was approximately 2.844 µg/mL.



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