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

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.

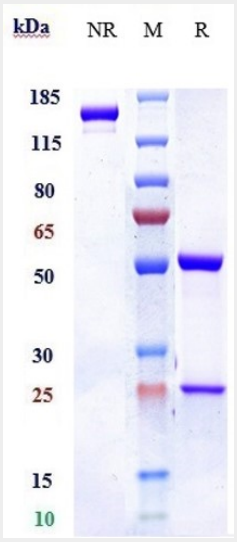
Tissue Location
Present in peripheral blood mononuclear cells.

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

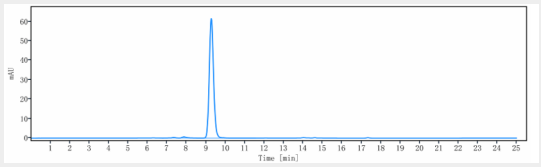
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.

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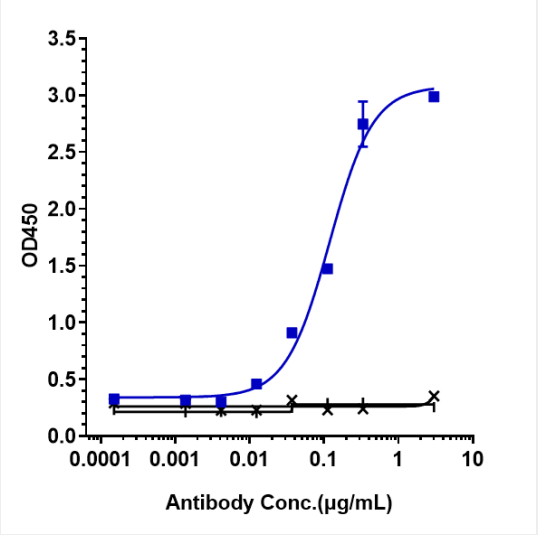
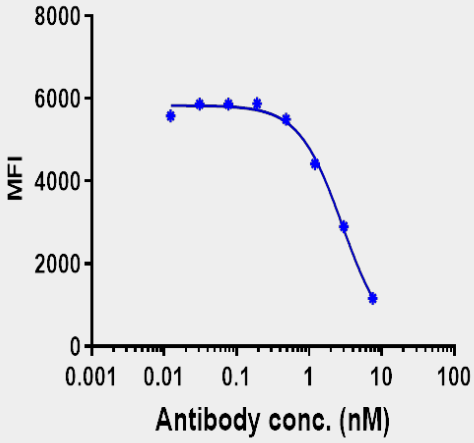
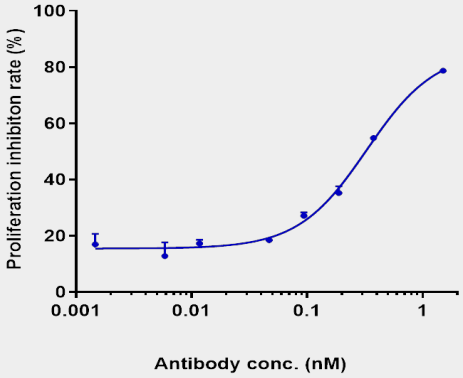


Immobilized human IL 5 His at 2 μg/mL can bind Anti-IL-5 Reference Antibody (mepolizumab)EC50=0.1188 μg/mL



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.