

Anti-IL-23 Reference Antibody (guselkumab)

Recombinant Antibody
Catalog # APR10030

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	Q9NPF7
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	20730

Additional Information

Target/Specificity	IL-23
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.

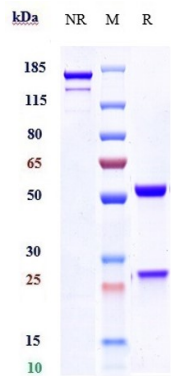
Protein Information

Name	IL23A
Synonyms	SGRF
Function	Associates with IL12B to form the pro-inflammatory cytokine IL-23 that plays different roles in innate and adaptive immunity (PubMed: 11114383). Released by antigen-presenting cells such as dendritic cells or macrophages, binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R to activate JAK2 and TYK2 which then phosphorylate the receptor to form a docking site leading to the phosphorylation of STAT3 and STAT4 (PubMed: 29287995 , PubMed: 32474165 , PubMed: 33606986). This process leads to activation of several pathways including p38 MAPK or NF-kappa-B and promotes the production of pro-inflammatory cytokines such as interleukin-17A/IL17A (PubMed: 12023369). In turn, participates in the early and effective intracellular bacterial clearance (PubMed: 32474165). Promotes the expansion and survival of T-helper 17 cells, a CD4-positive helper T-cell subset that produces IL-17, as well as other IL-17-producing cells (PubMed: 17676044).
Cellular Location	Secreted. Note=Secreted upon association with IL12B Secreted by activated dendritic and phagocytic cells and keratinocytes. Also

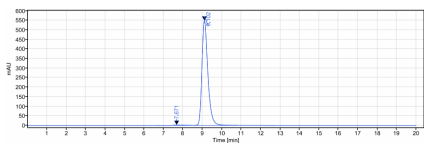
Tissue Location

expressed by dermal Langerhans cells (at protein level).

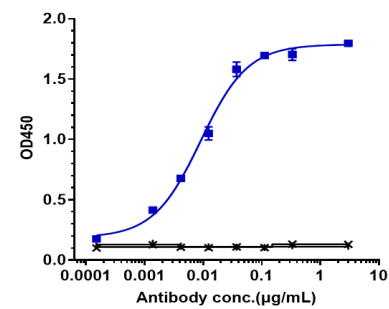
Images



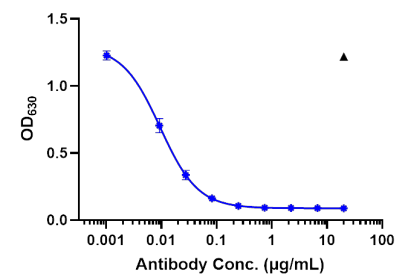
Anti-IL-23 Reference Antibody (guselkumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-IL-23 Reference Antibody (guselkumab) is more than 98.97% ,determined by SEC-HPLC.



Immobilized human IL 23P40 His at 2 µg/mL can bind Anti-IL-23 Reference Antibody (guselkumab),EC50=0.009014 µg/mL.



Anti-IL-23 Reference Antibody (guselkumab) induced report gene STAT3 activity was evaluated using Human IL23 HEK-Blue. The EC50 was approximately 0.0095 ug/mL.

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