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IL23A / IL-23 p19 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11463

Specification

IL23A / IL-23 p19 Antibody (N-Terminus) - Product Information

Application	**IF, WB, IHC**
Primary Accession	Q9NPF7
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**21kDa KDa**

IL23A / IL-23 p19 Antibody (N-Terminus) - Additional Information

Gene ID 51561

Other Names
Interleukin-23 subunit alpha, IL-23 subunit alpha, IL-23-A, Interleukin-23 subunit p19, IL-23p19, IL23A, SGRF

Target/Specificity
16 amino acid peptide from near the amino terminus of human IL-23

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
IL23A / IL-23 p19 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

IL23A / IL-23 p19 Antibody (N-Terminus) - 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:32474165, PubMed:29287995, 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

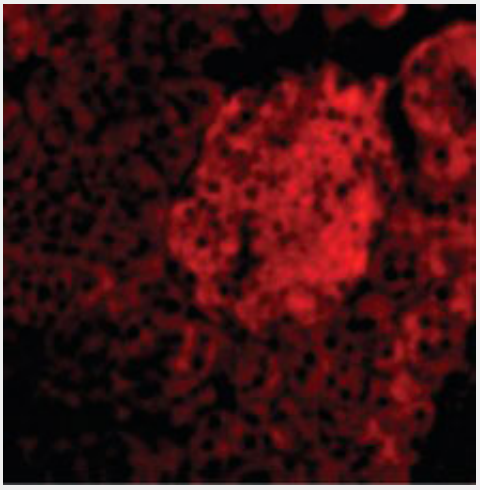
Tissue Location
Secreted by activated dendritic and phagocytic cells and keratinocytes. Also expressed by dermal Langerhans cells (at protein level).

IL23A / IL-23 p19 Antibody (N-Terminus) - Protocols

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

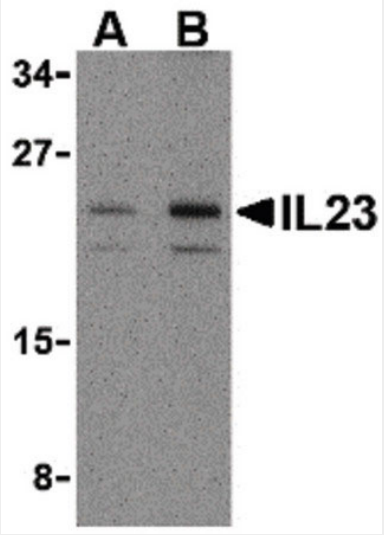
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL23A / IL-23 p19 Antibody (N-Terminus) - Images

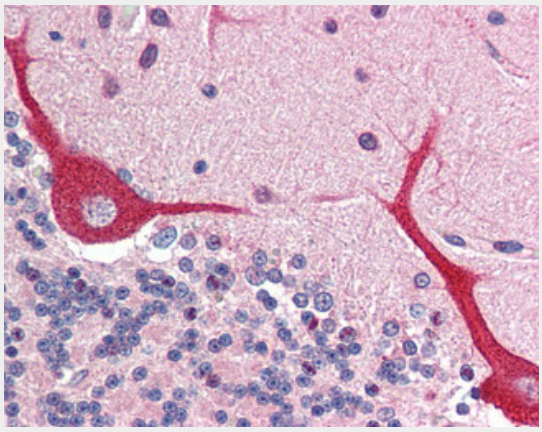


Immunofluorescence of IL-23 in Mouse Pancreas cells with IL-23 antibody at 20 ug/ml.

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Western blot of IL-23 in mouse pancreas tissue lysate with IL-23 antibody at (A) 1 and (B) 2 ug/ml.



Anti-IL-23 p19 antibody IHC of human brain, cerebellum.

IL23A / IL-23 p19 Antibody (N-Terminus) - Background

Associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak- Stat signaling cascade, stimulates memory rather than naive T- cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.

IL23A / IL-23 p19 Antibody (N-Terminus) - References

Oppmann B.,et al.Immunity 13:715-725(2000).
Hirata Y.,et al.Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Parham C.,et al.J. Immunol. 168:5699-5708(2002).
Pirhonen J.,et al.J. Immunol. 169:5673-5678(2002).