

IL-16 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1012a

Specification

IL-16 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype **Description** WB, E <u>Q14005</u> Human Mouse Monoclonal IgG1

Interleukin-16, also known as lymphocyte chemoattractant factor (LCF), is a chemotactic cytokine that stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils through binding to the CD4 receptor . IL-16 induces human T-lymphocyte expression of interleukin 2 receptor and upregurates major histocompatibility complex Imolecules on resting human T lymphocyte. It is able to render CD4+ T cells unresponsive to TCR/CD3 stimuli. Moreover, IL-16 inhibits the replication of T cell and monocyte tropic HIV strains in vitro.

Immunogen Purified recombinant fragment of human IL-16 expressed in E. Coli.

Formulation Ascitic fluid containing 0.03% sodium azide.

IL-16 Antibody - Additional Information

Gene ID 3603

Other Names Pro-interleukin-16, Interleukin-16, IL-16, Lymphocyte chemoattractant factor, LCF, IL16

Dilution WB~~1/500 - 1/2000 E~~N/A

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions IL-16 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-16 Antibody - Protein Information

Name IL16



Function

Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4. Isoform 3 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA- binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells.

Cellular Location

[Interleukin-16]: Secreted. [Isoform 3]: Cytoplasm. Nucleus.

Tissue Location [Isoform 3]: Expressed in hemopoietic tissues, such as resting T-cells, but undetectable during active T-cell proliferation

IL-16 Antibody - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

IL-16 Antibody - Images



Figure 1: Western blot analysis using IL16 mouse mAb against IL16 recombinant protein.

IL-16 Antibody - References

1. Cruikshank, W.W. et al 1994. Proc. Nat. Acad. Sci. 91: 5109-5113.