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IL13 Antibody (clone A130D 12G5 1E4)

Mouse Monoclonal Antibody
Catalog # ALS12955

Specification

IL13 Antibody (clone A130D 12G5 1E4) - Product Information

Application	**IHC**
Primary Accession	P35225
Reactivity	**Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**16kDa KDa**

IL13 Antibody (clone A130D 12G5 1E4) - Additional Information

Gene ID 3596

Other Names
Interleukin-13, IL-13, IL13, NC30

Target/Specificity
Recognizes recombinant and native rat IL-13.

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

Precautions
IL13 Antibody (clone A130D 12G5 1E4) is for research use only and not for use in diagnostic or therapeutic procedures.

IL13 Antibody (clone A130D 12G5 1E4) - Protein Information

Name IL13

Synonyms NC30

Function
Cytokine that plays important roles in allergic inflammation and immune response to parasite infection (PubMed:8096327, PubMed:8097324). Synergizes with IL2 in regulating interferon-gamma synthesis (PubMed:8096327). Stimulates B-cell proliferation, and activation of eosinophils, basophils, and mast cells (PubMed:7903680, PubMed:8759755). Plays an important role in controlling IL33 activity by modulating the production of transmembrane and soluble forms of interleukin-1 receptor-like 1/IL1RL1 (By similarity). Displays the capacity to antagonize Th1-driven proinflammatory immune response and downregulates synthesis of many

proinflammatory cytokines including IL1, IL6, IL10, IL12 and TNF-alpha through a mechanism that partially involves suppression of NF-kappa-B (By similarity). Functions also on nonhematopoietic cells, including endothelial cells where it induces vascular cell adhesion protein 1/VCAM1, which is important in the recruitment of eosinophils (PubMed:8639787). Exerts its biological effects through its receptors which comprises the IL4R chain and the IL13RA1 chain, to activate JAK1 and TYK2, leading to the activation of STAT6 (PubMed:9013879). Aside from IL13RA1, another receptor IL13RA2 acts as a high affinity decoy for IL13 and mediates internalization and depletion of extracellular IL13 (PubMed:21622864).

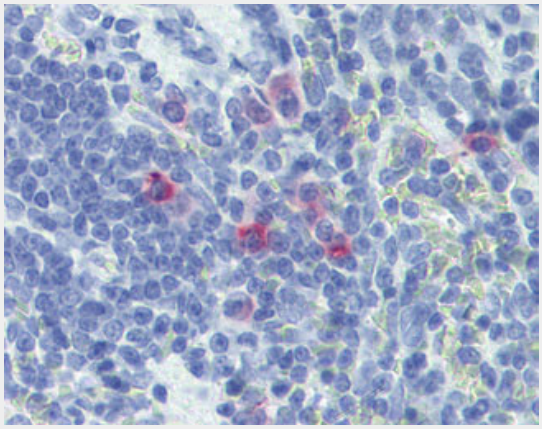
Cellular Location
Secreted.

IL13 Antibody (clone A130D 12G5 1E4) - 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

IL13 Antibody (clone A130D 12G5 1E4) - Images



Anti-IL-13 antibody IHC of rat spleen.

IL13 Antibody (clone A130D 12G5 1E4) - Background

Cytokine. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses.

IL13 Antibody (clone A130D 12G5 1E4) - References

Minty A.J.,et al.Nature 362:248-250(1993).
McKenzie A.N.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:3735-3739(1993).

Smirnov D.V.,et al.Gene 155:277-281(1995).
Dolganov G.,et al.Blood 87:3316-3326(1996).
Schmutz J.,et al.Nature 431:268-274(2004).