



Rabbit Anti-IL-13 antibody

SL0560R

Product Name:	IL-13
Chinese Name:	白介素13抗体
Alias:	ALRH; BHR 1; BHR1; IL 13; IL13; Interleukin 13; Interleukin13; MGC116786; MGC116788; MGC116789; NC30; P600; IL13_MOUSE; Interleukin-13; IL-13; T-cell activation protein P600.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse IL-13:45-56/131(mo)
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Human IL13 was originally identified by differential screening of an anti CD28 activated human peripheral blood mononuclear cell cDNA library as an induction specific novel cytokine. It was also isolated from cDNA libraries of human T cell clones using the murine IL13 (P600) cDNA as a probe. Human IL13, a pleiotropic cytokine, is produced by activated Th0, Th1 like, Th2 like, and CD8 T cells. The gene for human

IL13 maps to chromosome 5 and is closely linked to the genes for IL3, IL4, IL5, and GMCSF. IL13 inhibits proinflammatory cytokine production and stimulates antibody production. It induces proliferation in the human pre myeloid cell line TF1. IL13 has multiple effects on the differentiation and functions of monocytes and macrophages. It suppresses cytotoxic functions and induces changes in the morphology of human monocytes and in the phenotype of human monocytes and B cells by upregulating MHC class II expression. IL13 will also decrease the production of nitric oxide by activated murine macrophages, leading to impaired parasitocidal activity. Human and mouse interleukin 13 share approximately 58% amino acid sequence identity. Although human and mouse IL13 are equally active on human cells, human IL13 is much less active than mouse IL13 on mouse cells. Human IL13 and human IL4 also share approximately 30% sequence homology and have similar biological functions.

Function:

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

Subcellular Location:

Secreted.

DISEASE:

Defects in IL13 may be a cause of susceptibility to allergic rhinitis (ALRH) [MIM:607154]. Allergic rhinitis is a common disease of complex inheritance and is characterized by mucosal inflammation caused by allergen exposure.

Similarity:

Belongs to the IL-4/IL-13 family.

SWISS:

P20109

Gene ID:

16163

Database links:

[Entrez Gene: 3596](#) Human

[Entrez Gene: 16163](#) Mouse

[Entrez Gene: 116553](#) Rat

[Omim: 147683](#) Human

[SwissProt: P35225](#) Human

[SwissProt: P20109](#) Mouse

[SwissProt: P42203](#) Rat

[Unigene: 845](#) Human

[Unigene: 1284](#) Mouse

[Unigene: 9921](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

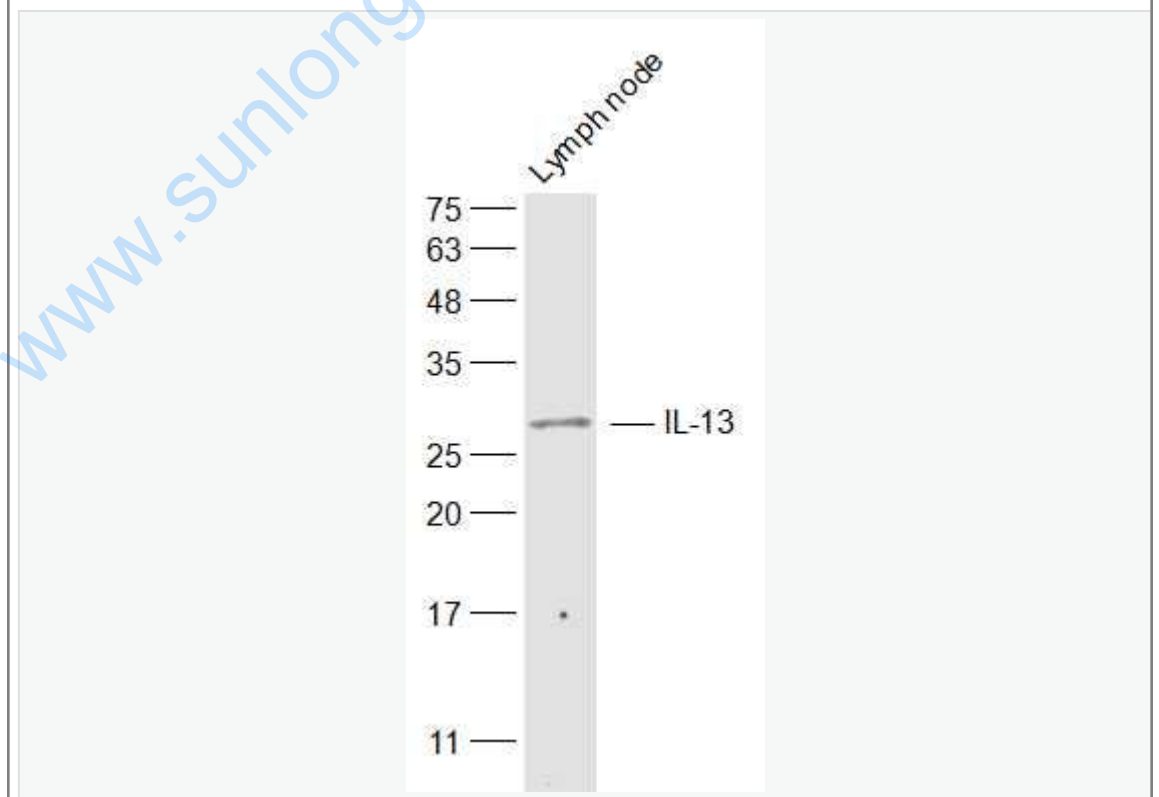
Growth factors and hormones (Growth Factor and Hormones)

IL-13是由T细胞、嗜碱粒细胞、浆细胞及树突状细胞产生的cell factor。

IL-

13诱导、维持一定IgE水平，增强巨噬细胞及树突状细胞活性，活化嗜酸粒细胞并防止其凋亡，广泛参与过敏性及炎症疾病过程。

Picture:



Sample:

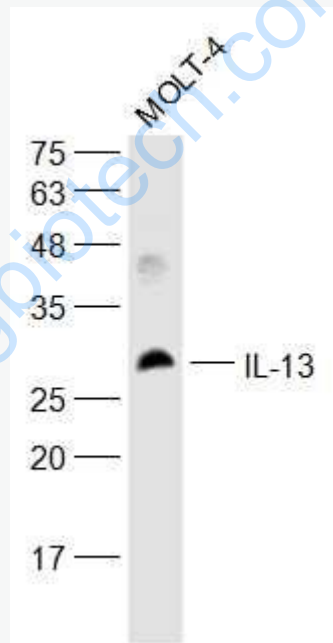
Lymph node (Mouse) Lysate at 40 ug

Primary: Anti-IL-13 (SL0560R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12 kD

Observed band size: 32 kD



Sample:

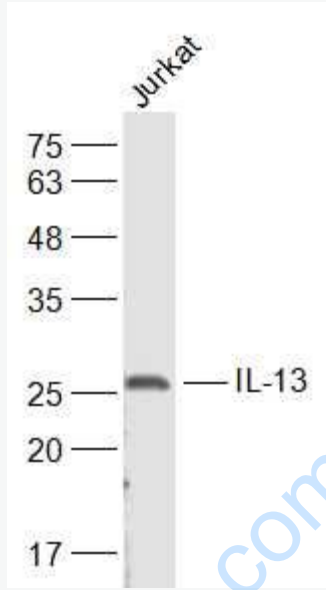
Molt-4(Human) Cell Lysate at 30 ug

Primary: Anti-IL-13 (SL0560R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12 kD

Observed band size: 32 kD



Sample:

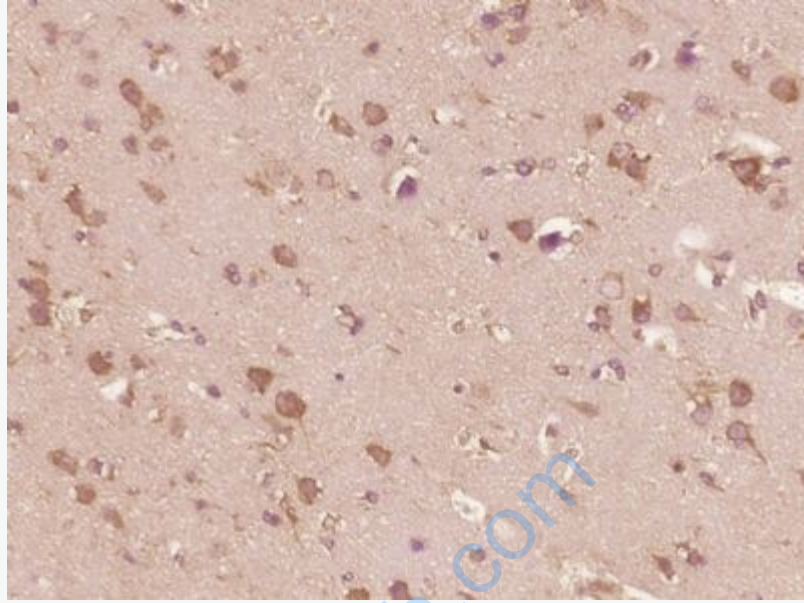
Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-IL-13 (SL0560R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12 kD

Observed band size: 27 kD



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IL-13) Polyclonal Antibody, Unconjugated (SL0560R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.