



Rabbit Anti-IL-16 antibody

SL1830R

Product Name:	IL-16
Chinese Name:	白介素16抗体
Alias:	Interleukin-16; HGNC:5980; HsT19289; Interleukin 16 precursor; LCF; Lymphocyte Chemotactic Factor; IL16; Lymphocyte chemoattractant factor; PrIL16; IL16 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
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:	13/76/147kDa
Cellular localization:	The nucleuscytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IL-16:25-125/1332
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:	The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be

involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

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 1 may act as a scaffolding protein that anchors ion channels in the membrane. 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.

Subunit:

Homotetramer (Probable). Isoform 2 interacts with GRIN2A. Isoform 1 interacts with GRIN2D, KCNJ10, KCNJ15 and CACNA1C. Isoform 2 interacts (via PDZ 3 domain) with PPP1R12A, PPP1R12B and PPP1R12C. Isoform 1 interacts with PPP1R12B. Isoform 3 interacts with GABPB1. Isoform 2 interacts (via PDZ 3 domain) with HDAC3 (By similarity).

Subcellular Location:

Secreted (By similarity). Isoform 1: Cytoplasm. Note=Colocalizes with GRIN2C in neuronal cell bodies and neurites. Isoform 2: Cytoplasm. Nucleus (By similarity).

Tissue Specificity:

Isoform 1 is expressed in neurons of the cerebellum and hippocampus. Isoform 2 is expressed in thymus, spleen and lung.

Post-translational modifications:

Isoform 3 is synthesized as a chemo-attractant inactive precursor in hemopoietic tissues and is proteolytically cleaved by caspase-3 to yield IL-16.

Similarity:

Contains 4 PDZ (DHR) domains.

SWISS:

Q14005

Gene ID:

3603

Database links:

[Entrez Gene: 3603](#) Human

[Entrez Gene: 16170](#)Mouse

[Entrez Gene: 116996](#)Rat

[Oimim: 603035](#)Human

[SwissProt: Q14005](#)Human

[SwissProt: O54824](#)Mouse

[Unigene: 459095](#)Human

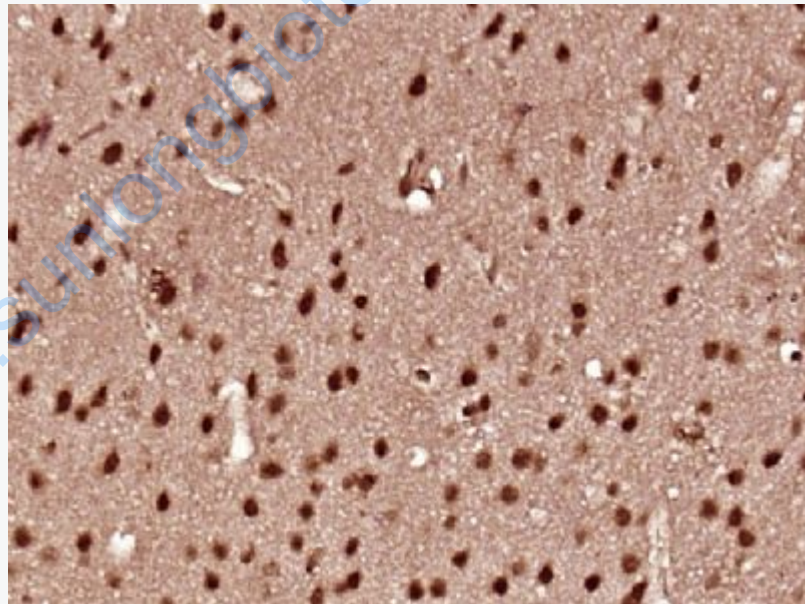
[Unigene: 10137](#)Mouse

[Unigene: 104665](#)Rat

Important Note:

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

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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-16) Polyclonal Antibody, Unconjugated (SL1830R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody

	(sp-0023) for 20 minutes and DAB staining.
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