



Rabbit Anti-IL-37 antibody

SL8811R

Product Name:	IL-37
Chinese Name:	白细胞介素37抗体
Alias:	FIL1; FIL1 zeta; FIL1(ZETA); FIL1Z; IL 1 zeta; IL 1F7; IL 1F7b (IL 1H4, IL 1H, IL 1RP1); IL 1H4; IL 1RP1; IL 1X; IL 1X protein; IL-1 zeta; IL-1F7; IL-1H; IL-1H4; IL-1RP1; IL-1X; IL-37; IL1F7 (canonical product IL 1F7b); IL1F7; IL37_HUMAN; IL1H4; IL1RP1; Interleukin 1 family member 7; interleukin 1 family, member 7 (zeta); Interleukin 1 homolog 4; Interleukin 1 related protein; Interleukin 1 superfamily z; Interleukin 1 zeta; Interleukin 37; Interleukin-1 family member 7; Interleukin-1 homolog 4; Interleukin-1 zeta; Interleukin-1-related protein; Interleukin-23.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	19kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IL-37:101-200/218
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 member of the interleukin 1 cytokine family. This

cytokine can bind to, and may be a ligand for interleukin 18 receptor (IL18R1/IL-1Rrp). This cytokine also binds to interleukin 18 binding protein (IL18BP), an inhibitory binding protein of interleukin 18 (IL18), and subsequently forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL18. This gene along with eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. Five alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Function:

Suppressor of innate inflammatory and immune responses involved in curbing excessive inflammation. This function requires SMAD3. Suppresses, or reduces, proinflammatory cytokine production, including IL1A and IL6, as well as CCL12, CSF1, CSF2, CXCL13, IL1B, IL23A and IL1RN, but spares anti-inflammatory cytokines. Inhibits dendritic cell activation.

Subunit:

Interacts with SMAD3. Binds IL18R1, but not to IL1R1, with lower affinity than IL18, and does not seem to act as a receptor antagonist for IL18.

Subcellular Location:

Cytoplasm; cytosol. Nucleus. Secreted. Stimulation with IL1B leads to colocalization with SMAD3 mostly in perinuclear regions. Only the CASP1-cleaved mature form translocates into the nucleus upon LPS stimulation.

Tissue Specificity:

In general, low constitutive expression, if any, in healthy tissues; high expression in inflammatory counterparts, including in synovial tissues from individuals with active rheumatoid arthritis. Isoform A, isoform B and isoform C are expressed in testis, colon, placenta, lung and lymph node. Isoform D and isoform E were found only in testis and bone marrow. Whereas only isoform A is found in brain, only isoform B in kidney and only isoform C in heart.

Post-translational modifications:

Proteolytically converted to the mature form by CASP1.

Similarity:

Belongs to the IL-1 family.

SWISS:

Q9NZH6

Gene ID:

27178

Database links:

[Entrez Gene: 27178](#) Human

[Omim: 605510](#) Human

[SwissProt: Q9NZH6](#) Human

[Unigene: 166371](#) Human

Important Note:

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

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