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IL1F8 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8956a

Specification

IL1F8 Antibody (N-term) - Product Information

Application	**FC, WB,E**
Primary Accession	Q9NZH7
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**18522**
Antigen Region	**1-30**

IL1F8 Antibody (N-term) - Additional Information

Gene ID 27177

Other Names
Interleukin-36 beta, FIL1 eta, Interleukin-1 eta, IL-1 eta, Interleukin-1 family member 8, IL-1F8, Interleukin-1 homolog 2, IL-1H2, IL36B, IL1F8, IL1H2

Target/Specificity
This IL1F8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human IL1F8.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
IL1F8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IL1F8 Antibody (N-term) - Protein Information

Name IL36B (HGNC:15564)

Synonyms IL1F8, IL1H2

Function Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Part of the IL- 36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Stimulates production of interleukin-6 and interleukin-8 in synovial fibrobasts, articular chondrocytes and mature adipocytes. Induces expression of a number of antimicrobial peptides including beta-defensins 4 and 103 as well as a number of matrix metalloproteases. Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and indirectly on T-cells to drive tissue infiltration, cell maturation and cell proliferation. In cultured keratinocytes induces the expression of macrophage, T-cell, and neutrophil chemokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17, CCL22, CXCL8, CCL20 and CXCL1, and the production of pro-inflammatory cytokines such as TNF-alpha, IL-8 and IL-6.

Cellular Location
Cytoplasm. Secreted. Note=The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion.

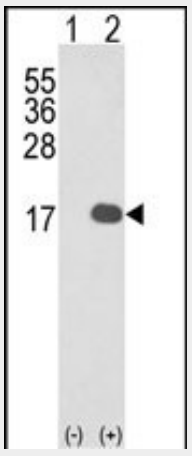
Tissue Location
Expression at low levels in tonsil, bone marrow, heart, placenta, lung, testis and colon but not in any hematopoietic cell lines. Not detected in adipose tissue. Expressed at higher levels in psoriatic plaques than in symptomless psoriatic skin or healthy control skin. Increased levels are not detected in inflamed joint tissue.

IL1F8 Antibody (N-term) - 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

IL1F8 Antibody (N-term) - Images



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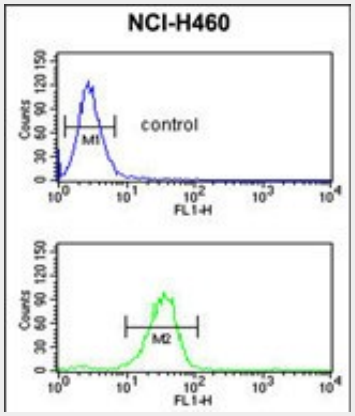
Western blot analysis of IL1F8 (arrow) using rabbit polyclonal IL1F8 Antibody (N-term) (Cat. #AP8956a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the IL1F8 gene (Lane 2).



IL1F8 Antibody (N-term) (Cat. #AP8956a) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IL1F8 Antibody (N-term) - Background

The protein is a member of the interleukin 1 cytokine family. Protein structure modeling indicated that this cytokine may contain a 12-stranded beta-trefoil structure that is conserved between IL1A (IL-A alpha) and IL1B (IL-1 beta).

IL1F8 Antibody (N-term) - References

Kim,T.J., et.al., J. Rheumatol. 35 (8), 1603-1608 (2008)
Magne,D., et.al., Arthritis Res. Ther. 8 (3), R80 (2006)