

IL36 gamma Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56963

Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession

Reactivity
Host
Clonality
Calculated MW
Physical State

Rabbit
Polyclonal
18721
Liquid

Immunogen KLH conjugated synthetic peptide derived from human IL36 gamma

Epitope Specificity 1-100/169 **Isotype** IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted.

SIMILARITY Belongs to the IL-1 family.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions The protein encoded by this gene is a member of the interleukin 1 cytokine

family. The activity of this cytokine is mediated by interleukin 1 receptor-like 2 (IL1RL2/IL1R-rp2), and is specifically inhibited by interleukin 1 family, member 5 (IL1F5/IL-1 delta). Interferon-gamma, tumor necrosis factor-alpha and interleukin 1, beta (IL1B) are reported to stimulate the expression of this cytokine in keratinocytes. The expression of this cytokine in keratinocytes can also be induced by a contact hypersensitivity reaction or herpes simplex virus infection. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Jun 2013]

Additional Information

Gene ID 56300

Other Names Interleukin-36 gamma, IL-1-related protein 2, IL-1RP2, Interleukin-1 epsilon,

IL-1 epsilon, Interleukin-1 family member 9, IL-1F9, Interleukin-1 homolog 1,

IL-1H1, IL36G (HGNC:15741)

Target/Specificity Highly expressed in tissues containing epithelial cells: skin, lung, stomach and

esophagus. In skin is expressed only in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. Up-regulated in lesional psoriasis skin.

Dilution IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-

10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name IL36G (<u>HGNC:15741</u>)

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. 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. 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; also stimulates its own expression and that of the prototypic cutaneous pro-inflammatory parameters TNF-alpha, S100A7/psoriasin and inducible NOS. May play a role in pro-inflammatory responses during particular neutrophilic airway inflammation: activates mitogen-activated protein kinases and NF-kappa B in primary lung fibroblasts, and stimulates the expression of IL-8 and CXCL3 and Th17 chemokine CCL20 in lung

pathogens, such as Aspergillus fumigatus.

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

fibroblasts. May be involved in the innate immune response to fungal

reticulum-Golgi intermediate compartment) followed by vesicle entry and

secretion.

Tissue Location Highly expressed in tissues containing epithelial cells: skin, lung, stomach and

esophagus. Expressed in bronchial epithelial. In skin is expressed only in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. Up-regulated in lesional psoriasis skin. Expressed in monocyte-derived

dendritic cells and M1 macrophages.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.