ARG66157
anti-IL36 gamma antibody (Biotin)

Package: 50 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Rabbit Polyclonal antibody recognizes IL36 gamma
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IL36 gamma
Species	Human
Immunogen	E. coli derived recombinant Human IL36 gamma. (SMCKPITGTI NDLNQQVWTL QGQNLVAVPR SDSVTPVTVA VITCKYPEAL EQGRGDPIYL GIQNPEMCLY CEKVGEQPTL QLKEQKIMDL YGQPEPVKPF LFYRAKTGRT STLESVAFPD WFIASSKRDQ PIILTSELGK SYNTAFELNI ND)
Conjugation	Biotin
Alternate Names	IL-1 epsilon; IL1H1; Interleukin-1 homolog 1; IL-1-related protein 2; Interleukin-36 gamma; IL-1H1; IL-1F9; IL1F9; IL-1RP2; IL1RP2; IL1E; Interleukin-1 family member 9; Interleukin-1 epsilon

Application Instructions

Application table

Application	Dilution
ELISA	Direct: ~ 1.0 µg/ml Sandwich: 0.25 - 1.0 µg/ml with ARG66156 as a capture antibody
WB	0.1 - 0.2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

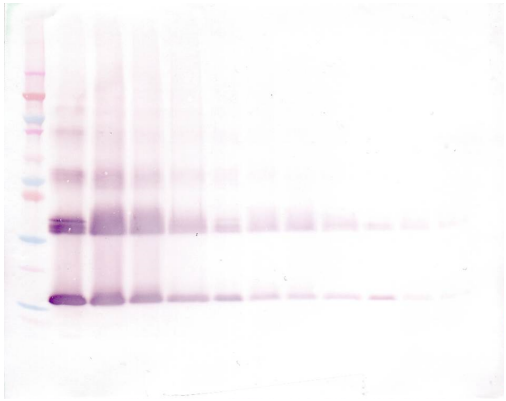
Properties

Form	Liquid
Purification	Purified by affinity chromatography.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

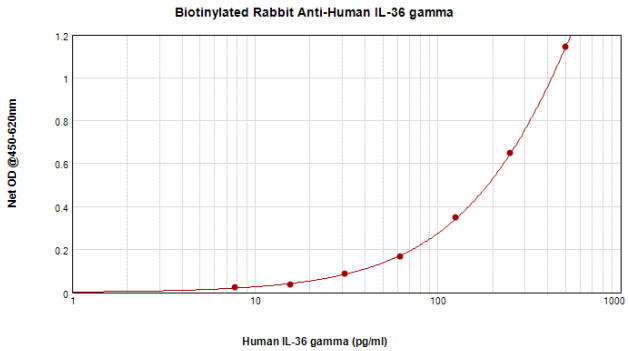
Database links	GeneID: 56300 Human Swiss-port # Q9NZH8 Human
Gene Symbol	IL36G
Gene Full Name	interleukin 36, gamma
Background	The protein encoded by this gene is a member of the interleukin 1 cytokine family. The activity of this cytokine is mediated by interleukin 1 receptor-like 2 (IL1RL2/IL1R-rp2), 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]
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 proinflammatory parameters TNF-alpha, S100A7/psoriasin and inducible NOS. May play a role in proinflammatory 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 fibroblasts. May be involved in the innate immune response to fungal pathogens, such as Aspergillus fumigatus. [UniProt]
Calculated Mw	19 kDa
PTM	N-terminal truncation leads to a dramatic enhancement of its activity (>1000-fold).

Images



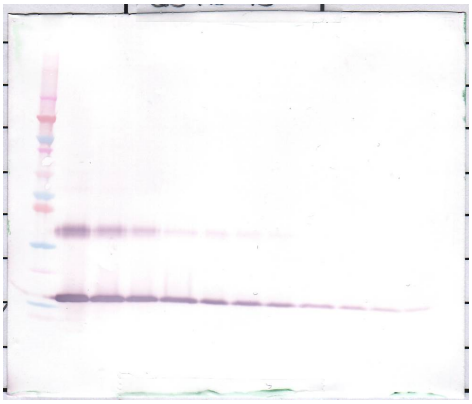
ARG66157 anti-IL36 gamma antibody (Biotin) WB image

Western blot: 250 - 0.24 ng of Human IL-36γ stained with ARG66157 anti-IL36 gamma antibody (Biotin), under non-reducing conditions.



ARG66157 anti-IL36 gamma antibody (Biotin) standard curve image

Sandwich ELISA: ARG66157 anti-IL36 gamma antibody (Biotin) as a detection antibody at 0.25 - 1.0 µg/ml combined with ARG66156 anti-IL36 gamma antibody as a capture antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.



ARG66157 anti-IL36 gamma antibody (Biotin) WB image

Western blot: 250 - 0.24 ng of Human IL-36γ stained with ARG66157 anti-IL36 gamma antibody (Biotin), under reducing conditions.