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IL36G Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15396

Product Information

Application	WB
Primary Accession	Q9NZH8
Other Accession	NM_019618, NP_062564
Reactivity	Human, Rabbit, Horse
Predicted	Human, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18721

Additional Information

Gene ID	56300
Alias Symbol	IL-1F9, IL-1H1, IL-1RP2, IL1E, IL1F9, IL1H1, IL1RP2
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, IL1E, IL1F9, IL1H1, IL1RP2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-IL36G antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	IL36G Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

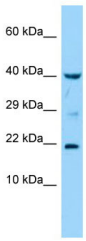
Name	IL36G (HGNC:15741)
Function	Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory 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 fibroblasts. May be involved in the innate immune response to fungal 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 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.

References

Kumar S.,et al.J. Biol. Chem. 275:10308-10314(2000).
Debets R.,et al.J. Immunol. 167:1440-1446(2001).
Busfield S.J.,et al.Genomics 66:213-216(2000).
Nicklin M.J.H.,et al.Genomics 79:718-725(2002).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

Images



Host: Rabbit
Target Name: IL36G
Sample Tissue: THP-1 Whole cell lysate
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Antibody Dilution: 1.0µg/ml