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IL-1F10 Antibody
Catalog # ASC11709

Specification

IL-1F10 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q8WWZ1
Other Accession	NP_775184, 27894307
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 17 kDa** **Observed: 20 kDa KDa**
Application Notes	**IL-1F10 antibody can be used for detection of IL-1F10 by Western blot at 1 - 2 µg/ml**

IL-1F10 Antibody - Additional Information

Gene ID **84639**

Target/Specificity
IL1F10; IL-1F10 antibody is human, mouse and rat reactive. Two isoforms of IL-1F10 exist.

Reconstitution & Storage
IL-1F10 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
IL-1F10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-1F10 Antibody - Protein Information

Name IL1F10 {ECO:0000312|MIM:615296}

Synonyms FIL1T, IL1HY2, IL38

Function
Cytokine with immunomodulatory activity. Alone, does not induce cytokine production, but reduces IL22 and IL17A production by T- cells in response to heat-killed Candida albicans. Reduces IL36G- induced production of IL8 by peripheral blood mononuclear cells. Increases IL6 production by dendritic cells stimulated by bacterial lipopolysaccharides (LPS). Ligand for IL-36R/IL1RL2.

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

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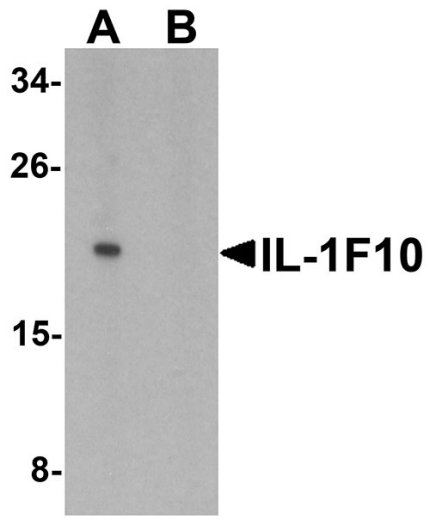
Expressed in fetal skin, spleen and tonsil. Expressed mostly in the basal epithelia of skin and in proliferating B- cells of the tonsil

IL-1F10 Antibody - Protocols

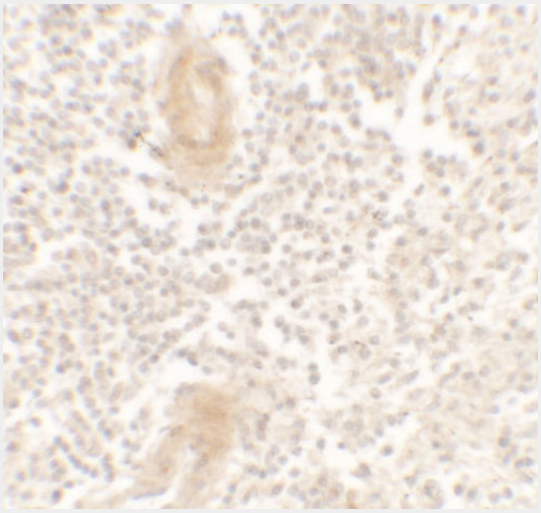
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL-1F10 Antibody - Images



Western blot analysis of IL-1F10 in human liver tissue lysate with IL-1F10 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



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Immunohistochemistry of IL-1F10 in human spleen tissue with IL-1F10 antibody at 5 µg/mL.

IL-1F10 Antibody - Background

The cytokine IL-1 is responsible for initiating a variety of activities through the activation of transcription factors, NF-kappa B and AP-1, thereby promoting host response to injury or infection (1). IL-1F10 (Interleukin-1 family member 10), also known as FIL1T, IL1HY2 or FKSG75, is highly expressed in the skin, spleen and proliferating B-cells of the tonsil (2). IL-1F10 binds soluble IL-1 receptor type 1, and is one of nine Interleukin 1 families clustered on chromosome 2, where it is thought to participate in the regulation of adapted and innate immune responses (3). IL-1F10 and IL-1RN polymorphisms may play an important role in the susceptibility to developing rheumatoid arthritis (4).

IL-1F10 Antibody - References

Towne JE, Garka KE, Renshaw BR, et al. Interleukin (IL)-1F6, IL-1F8, and IL-1F9 signal through IL-1Rrp2 and IL-1RAcP to activate the pathway leading to NF-kappaB and MAPKs. J. Biol. Chem. 2004; 279:13677-88.
Lin H, Ho AS, Haley-Vicente D, et al. Cloning and characterization of IL-1HY2, a novel interleukin-1 family member. J. Biol. Chem. 2001; 276: 20597-602.
Bensen JT, Dawson PA, Mychaleckyj JC, et al. Identification of a novel human cytokine gene in the interleukin gene cluster on chromosome 2q12-14. J. Interferon Cytokine Res. 2001; 21:899-904.
Cruz-Robles D, Chavez-Gonzalez JP, Cavazos-Quero MM, et al. Association between IL-1B and IL-1RN gene polymorphisms and Chagas' disease development susceptibility. Immunol. Invest. 2009; 38:231-9.