

IL37 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50940

Product Information

Application	WB
Primary Accession	Q9NZH6
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24126

Additional Information

Gene ID	27178
Other Names	Interleukin-37, FIL1 zeta, IL-1X, Interleukin-1 family member 7, IL-1F7, Interleukin-1 homolog 4, IL-1H, IL-1H4, Interleukin-1 zeta, IL-1 zeta, Interleukin-1-related protein, IL-1RP1, Interleukin-23, IL-37, IL37, FIL1Z, IL1F7, IL1H4, IL1RP1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-37. The exact sequence is proprietary.
Dilution	WB~~ 1:500
Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 55% glycerol
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	IL37 (HGNC:15563)
Function	Immune regulatory cytokine that acts as a suppressor of innate inflammatory and immune responses involved in curbing excessive inflammation. Signaling can occur via two mechanisms, intracellularly through nuclear translocation with SMAD3 and extracellularly after secretion and binding to its receptor composed of IL18R1 and IL18RAP. Suppresses, or reduces, pro-inflammatory cytokine production, including IL1A and IL6, as well as CCL12, CSF1, CSF2, CXCL13, IL1B, IL23A and IL1RN, but spares anti-inflammatory cytokines. Inhibits dendritic cell activation.
Cellular Location	Cytoplasm, cytosol. Nucleus. Secreted Note=Stimulation with IL1B leads to colocalization with SMAD3 mostly in perinuclear regions (PubMed:20935647, PubMed:33674380). Only the CASP1- cleaved mature form translocates into

the nucleus upon LPS stimulation (PubMed:18390730). 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 (PubMed:32272059, PubMed:33674380).

Tissue Location

In general, low constitutive expression, if any, in healthy tissues; high expression in inflammatory counterparts, including in synovial tissues from individuals with active rheumatoid arthritis. Isoform A, isoform B and isoform C are expressed in testis, colon, placenta, lung and lymph node. Isoform D and isoform E were found only in testis and bone marrow. Whereas only isoform A is found in brain, only isoform B in kidney and only isoform C in heart

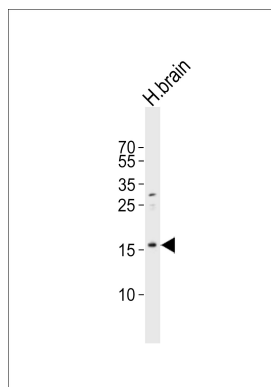
Background

Suppressor of innate inflammatory and immune responses involved in curbing excessive inflammation. This function requires SMAD3. Suppresses, or reduces, proinflammatory cytokine production, including IL1A and IL6, as well as CCL12, CSF1, CSF2, CXCL13, IL1B, IL23A and IL1RN, but spares anti-inflammatory cytokines. Inhibits dendritic cell activation.

References

Kumar S.,et al.J. Biol. Chem. 275:10308-10314(2000).
Manoj P.P.,et al.Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
Pan G.,et al.Cytokine 13:1-7(2001).
Smith D.E.,et al.J. Biol. Chem. 275:1169-1175(2000).
Taylor S.L.,et al.Genomics 79:726-733(2002).

Images



Western blot analysis of lysate from human brain tissue lysate, using IL37 Antibody(AP50940).AP50940 was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysate at 20ug.

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