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IL27R Rabbit pAb

Catalog # AP98418

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6UWB1
Other Accession	Q6UWB1
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69474
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IL27RA
Epitope Specificity	21-120/636
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the type I cytokine receptor family. Type 2 subfamily.Contains 3 fibronectin type-III domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Upon antigen challenge, T-helper cells differentiate into two functionally distinct subsets, Th1 and Th2. Th1 cells produce IL-2, IFN-gamma and lymphotoxin-b that augment the cell-mediated immune response, while Th2 cells secrete IL-4, IL-5, and IL-10 that enhance humoral immunity. The function of T-helper cells is regulated by cytokines. A novel cytokine receptor was recently identified and cloned. It is a new member in the type I cytokine receptor family and designated TCCR for T-cell cytokine receptor and WSX-1. TCCR deficient mice had impaired Th1 responses to protein antigen challenge, including decreased levels of IFN-gamma and Th1-dependent antibody IgG2a. TCCR is predominantly expressed in thymus, spleen, lymph nodes and peripheral blood leukocytes.

Additional Information

Gene ID	9466
Other Names	CRL1; IL-27RA; IL27R; TCCR; WSX1; zcytor1; IL-27R; WSX-1; I27RA_HUMAN; IL27RA; IL-27 receptor subunit alpha; IL-27R subunit alpha; IL-27R-alpha; Cytokine receptor WSX-1; Cytokine receptor-like 1; Type I T-cell cytokine receptor (TCCR); I27RA_MOUSE; interleukin 27 receptor subunit alpha; interleukin 27 receptor, alpha; T-cell cytokine receptor type 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	IL27RA (HGNC:17290)
Synonyms	CRL1, TCCR, WSX1
Function	Signal-transducing subunit for an heterodimeric cytokine composed of IL27/p28 and a soluble receptor EBI3 (PubMed:14764690, PubMed:36930708). Heterodimerizes with IL6ST/GP130 to mediate signal transduction in response to the heterodimeric cytokine IL27/p28-EBI3. This signaling system acts through STAT3 and STAT1 (PubMed:14764690, PubMed:38509369). Also acts as a signaling receptor as part of the humanin receptor complex; binding of MT-RNR2/humanin (HN) activates the intracellular JAK-STAT3 signaling pathway leading to neuroprotection (PubMed:19386761). Involved in the regulation of Th1-type immune responses (By similarity). Also appears to be involved in innate defense mechanisms (PubMed:14764690).
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Highly expressed in lymphoid tissues such as spleen, lymph nodes and peripheral blood leukocytes. Weakly expressed in other tissues examined including heart, brain, fetal and adult lung, liver, skeletal muscle, kidney, pancreas, prostate, testis, ovary, small intestine, kidney and colon. In the lymphoid system, higher level expression in CD4+ T-cell subsets than in CD8+ T-cell subsets. Also weaker expression in CD19+ B-cells and monocytes

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