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IL-27beta Rabbit pAb

Catalog # AP98134

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14213
Other Accession	Q14213
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25396
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EBI3/IL-27beta
Epitope Specificity	121-229/229
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 3 subfamily. Contains 2 fibronectin type-III domains.
SUBUNIT	Heterodimer with IL27. IL-27 is a heterodimer composed IL27 and EBI3. EBI3 is also a component of the IL-12 heterodimer. Interacts with SQSTM1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Epstein-Barr virus-induced gene 3 (Ebi3) is a widely expressed homolog to the interleukin IL-12 p40 subunit protein that forms a heterodimer with either IL-12 p35 or an IL-12 p35 homolog, p28, to create a new cytokine (IL-27). Ebi3 may function to antagonize IL-12 and to inhibit the development of a Th1 immune response. Ebi3 is strongly expressed in Hodgkin and Reed-Sternberg cells, independently of the EBV status of the tumor cells. Ebi2 is expressed in B-lymphocytes and lymphoid tissues and may function in the modulation of the immune system. Out of the nine genes that are induced by the Epstein-Barr virus, Ebi2 exhibits the highest levels of up-regulation. In addition, Ebi2 may play a role mediating normal lymphocyte functions.

Additional Information

Gene ID	10148
Other Names	IL27B_HUMAN; EBI3; IL-27 subunit beta; IL-27B; Epstein-Barr virus-induced gene 3 protein (EBV-induced gene 3 protein); IL27B; IL27B_MOUSE; Epstein-Barr virus-induced gene 3 protein homolog; Epstein-Barr virus induced 3; IL27 subunit; IL35 subunit
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	EBI3
Synonyms	IL27B
Function	Associates with IL27 to form the IL-27 interleukin, a heterodimeric cytokine which functions in innate immunity. IL-27 has pro- and anti-inflammatory properties, that can regulate T-helper cell development, suppress T-cell proliferation, stimulate cytotoxic T-cell activity, induce isotype switching in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T-helper cells which can differentiate in type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. It also strongly synergizes with IL-12 to trigger interferon-gamma/IFN- gamma production of naive CD4 T-cells, binds to the cytokine receptor WSX-1/TCCR. Another important role of IL-27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines.
Cellular Location	Secreted.

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