

IL-27beta Rabbit pAb

Catalog # AP98134

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14213
Other Accession	Q14213
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=1:500 0-10000
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'.