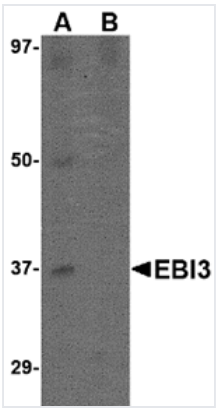
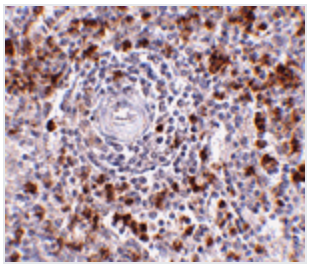
EBI3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EBI3, Polyclonal Antibody
Full Product Name	EBI3 Antibody
Product Gene Name	anti-EBI3 antibody
Product Synonym Names	Epstein-Barr virus induced 3 precursor, interleukin-27 subunit beta, IL-27B
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	25,396 Da
OMIM	605816
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human EBI3.
Target Name	EBI3
Product Categories/Family for anti-EBI3 antibody	Total protein Ab
Applications Tested/Suitable for anti-EBI3 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-EBI3 antibody	EBI3 is a subunit in two distinct heterodimeric cytokines: interleukin-27 (IL-27) and IL-35. Like interleukin-23 (IL-23), IL-27 is a recently discovered member of the IL-6/IL-12 family of proinflammatory and immunoregulatory cytokines. It exists as a heterodimer composed of the p40-related protein EBI3 and an IL-12 p35-related protein termed p28. IL-27 is produced after activation by antigen-presenting cells and induces proliferation of na ve but not memory CD4+ T-cells. It acts by binding to its receptor WSX-1 (also known as TCCR) and gp130 which results in the activation of a Jak/STAT signaling cascade, suggesting the IL-27 is involved in the regulation of immune processes. It has been suggested that IL-27 can also be used as a therapeutic agent against cancer as it can also induce tumor-specific anti-tumor activity mediated through CD8+ T-cells, IFN-gamma, and T-bet. IL-35 is composed of EBI3 and the p35 subunit of IL-12 and has been reported to have therapeutic effects against collagen-induced arthritis by expanding the population of regulatory T cells and suppressing Th17 cells. At least two isoform of EBI3 are known to exist.
Other Notes	Small volumes of anti-EBI3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EBI3 purchase	MBS9401567 is an antibody targeting EBI3. Also known as EBI3 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-EBI3 antibody
Western blot analysis of EBI3 in K562 lysate with EBI3 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry (IHC) of anti-EBI3 antibody
Immunohistochemistry of EBI3 in human spleen tissue with EBI3 antibody at 2.5 ug/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EBI3. It may not necessarily be applicable to this product.

NCBI GI #	14577917
NCBI GeneID	10148
NCBI Accession #	NP_005746
UniProt Secondary Accession #	O75269; A0N0N2
UniProt Related Accession #	Q14213
GenBank Nucleotide #	NM_005755.2
NCBI Official Full Name	interleukin-27 subunit beta
NCBI Official Synonym Full Names	Epstein-Barr virus induced 3
NCBI Official Symbol	EBI3
NCBI Official Synonym Symbols	IL27B; IL-27B
UniProt Protein Name	Interleukin-27 subunit beta
UniProt Synonym Protein Names	Epstein-Barr virus-induced gene 3 protein; EBV-induced gene 3 protein
Protein Family	Interleukin
UniProt Gene Name	EBI3
UniProt Synonym Gene Names	IL27B; IL-27 subunit beta; IL-27B; EBV-induced gene 3 protein
UniProt Entry Name	IL27B_HUMAN
NCBI Protein Information	interleukin-27 subunit beta
NCBI Summary for EBI3	This gene was identified by its induced expression in B lymphocytes in response Epstein-Barr virus infection. It encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form interleukin 27 (IL-27). IL-27 regulates T cell and inflammatory responses, in part by activating the Jak/STAT pathway of CD4+ T cells. [provided by RefSeq, Sep 2008]

UniProt Comments for EBI3	IL27-beta: Cytokine with 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 IL27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines. Belongs to the type I cytokine receptor family. Type 3 subfamily. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: extracellular space; plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; protein binding; interleukin-27 receptor binding; cytokine activity Biological Process: T-helper 1 type immune response; cytokine and chemokine mediated signaling pathway; positive regulation of alpha-beta T cell proliferation; humoral immune response; positive regulation of interferon-gamma biosynthetic process
Research Articles on EBI3	**1.** The levels of EBI3 and IL-12p35 mRNAs in peripheral blood mononuclear cells in moderate or hyper-responders were significantly higher than those in non- or hypo-responders.
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