

Datasheet for ABIN499778
anti-EBI3 antibody (Center)



[Go to Product page](#)

2 Images

Overview

Quantity:	0.1 mg
Target:	EBI3 (IL-27b)
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EBI3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	EBI3 antibody was raised against a 16 amino acid peptide from near the center of human EBI3.
Isotype:	IgG
Specificity:	This antibody reacts to EBI3.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	EBI3 (IL-27b)
Alternative Name:	EBI3 / IL27B (IL-27b Products)
Target Type:	Viral Protein

Target Details

Background:	EBI3 is a subunit in two distinct heterodimeric cytokines: interleukin-27 (IL-27) and IL-35 (1-3). 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 naive 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-g, 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.Synonyms: EBV-induced gene 3 protein, Epstein-Barr virus-induced gene 3 protein, IL-27 subunit beta, IL-27B, Interleukin-27 subunit beta
-------------	---

Gene ID:	10148
----------	-------

NCBI Accession:	NP_005746
-----------------	---------------------------

UniProt:	Q14213
----------	------------------------

Application Details

Application Notes:	ELISA. Western Blot: 2 - 4 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
--------------------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

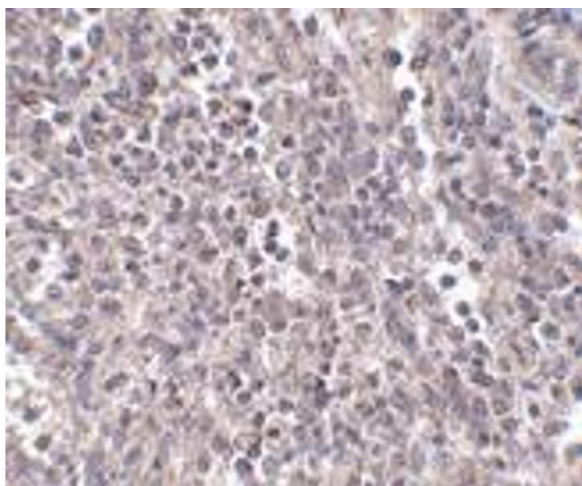
Buffer:	PBS containing 0.02 % sodium azide.
---------	-------------------------------------

Preservative:	Sodium azide
---------------	--------------

Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

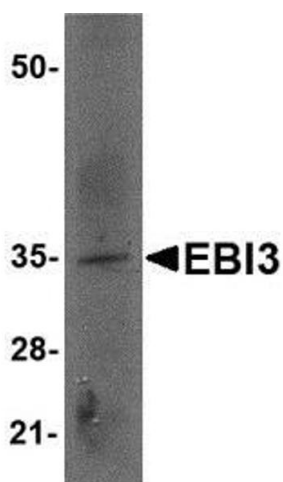
Storage:	4 °C
----------	------

Storage Comment:	Store the antibody undiluted at 2-8 °C.
------------------	---



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of EBI3 in human spleen tissue with EBI3 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of EBI3 in rat spleen tissue lysate with AP30307PU-N EBI3 antibody at 2 µg/ml.