

Datasheet for 209-401-B66**IL-35 EBI3 Antibody****Overview**

Description:	Anti-Human EBI-3 (RABBIT) Antibody - 209-401-B66
Item No.:	209-401-B66
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details**Background:**

The cytokine Interleukin 27 (IL-27) is produced in response to inflammation. It is made by activated antigen presenting cells including monocytes, endothelial cells, and dendritic cells. IL-27 consists of a heterodimeric combination of Epstein-Barr virus-induced molecule 3 (EBI3, or IL-27B) non-covalently linked with IL-27 p28 (or IL-27A). It is a regulator of T helper cell development and suppressor of T-cell proliferation. IL-27 has both pro- and anti-inflammatory properties. It can stimulate cytotoxic T cell activity and induce isotype switching in B-cells. It has diverse effects on innate immune cells. It induces monocytes and mast cells to secrete pro-inflammatory cytokines. When infection is present, IL-27 induces naive CD4+ T cells to proliferate and develop Th1 cell responses. As an anti-inflammatory regulator, IL-27 can inhibit Th1 or Th2 responses and restrict the strength and duration of adaptive immune responses.

The IL-27 p28 subunit, a 28 kDa glycoprotein belonging to the type I cytokine family, is homologous to IL-12 p35, IL-23 p19, and IL-6. The EBI3 (Epstein-Barr virus-induced molecule 3, or IL-27B) subunit is a 34 kDa glycoprotein containing two fibronectin type III domains, and belongs to the type I cytokine receptor family. It can exist as a homodimer and can also heterodimerize with IL-27 p28 or IL-12 p35 subunit. It is homologous to the p40 subunit of IL-12 and IL-23 and to the extracellular domain of IL-6 R.

Synonyms:	rabbit Anti-EBI3, rabbit anti-EBI-3, Interleukin-27 subunit beta, IL-27 subunit beta, IL-27B, Epstein-Barr virus-induced gene 3 protein, EBV-induced gene 3 protein, EBI-3, EBI3, IL-35, IL35
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	EBI3
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-EBI-3 Antibody / Anti-IL27 is an IgG fraction antibody was prepared from rabbit antiserum after repeated immunizations with mature length recombinant human EBI3 protein produced in E.coli.
Purity/Specificity:	Anti-EBI-3 Antibody / Anti-IL27 is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human EBI3 protein. A BLAST analysis was used to suggest cross-reactivity with EBI3 from human sources based on 100% homology with the immunizing sequence. Based on 97% homology, there is a chance of cross-reactivity to EBI3 from chimpanzee. Cross-reactivity with EBI-3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q14213 • NCBI - NP_005746.2 • GenelD - 10148

Application Details

Tested Applications:	WB
Application Note:	Anti-EBI-3 Antibody / Anti-IL27 is a purified antibody that has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 23 kDa in size corresponding to the mature human EBI3 protein by western blotting in appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

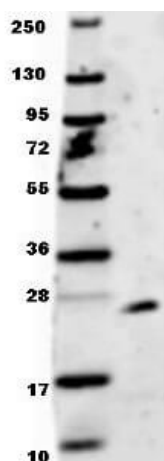
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store Anti-EBI-3 Antibody / Anti-IL27 beta at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot

Anti-human EBI-3 antibody in western blot shows detection of recombinant human EBI-3 raised in E.coli. Recombinant protein (0.1 µg, 23 kDa) was loaded on to an SDS-PAGE gel, and after separation, transferred to nitrocellulose. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with Rockland's Anti-Human EBI-3 Antibody diluted 1:1,000 in 1% BSA in TBST overnight at 4°C. After washes, the blot was reacted with secondary antibody Dylight™ 649 Conjugated Anti-Rabbit IgG (H&L) (Goat) Antibody (611-143-122) diluted 1:20,000 in blocking buffer (p/n MB-070) for 30 min. at RT. Data was collected using Bio-Rad VersaDoc® 4000 MP imaging system.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.