

## Datasheet for 210-403-B66

**IL-35 EBI3 Antibody Peroxidase Conjugated****Overview**

<b>Description:</b>	Anti-Mouse EBI-3 (RABBIT) Antibody Peroxidase Conjugated - 210-403-B66
<b>Item No.:</b>	210-403-B66
<b>Size:</b>	100 µg
<b>Applications:</b>	WB
<b>Reactivity:</b>	Mouse, Rat
<b>Host Species:</b>	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-12 p35. It is homologous to the p40 subunit of IL-12 and IL-23 and to the extracellular domain of IL-6 R. EBI3 can heterodimerize also with IL-12 p35, or can exist as a homodimer.

<b>Synonyms:</b>	rabbit anti-EBI3 peroxidase conjugated antibody, rabbit anti-IL-35 HRP conjugated antibody, Epstein-Barr virus induced 3 protein, 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, HRP
<b>Host Species:</b>	Rabbit
<b>Conjugate:</b>	Peroxidase (HRP)

**Clonality:** Polyclonal**Format:** IgG

## Target Details

**Gene Name:** Ebi3**Reactivity:** Mouse, Rat**Immunogen Type:** Recombinant Protein**Immunogen:** Anti-EBI-3 / IL27 beta Antibody Peroxidase Conjugate was prepared by repeated immunizations with recombinant mouse EBI3.**Purity/Specificity:** Anti-EBI-3 / IL27 beta Antibody Peroxidase Conjugate 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 mouse and rat EBI-3 protein. Cross reactivity does NOT occur with human EBI-3. Cross-reactivity with IL-27 from other sources has not been determined.**Relevant Links:**

- [NCBI - NP\\_056581.1](#)
- [UniProtKB - O35228](#)
- [GenelD - 50498](#)

## Application Details

**Tested Applications:** WB**Application Note:** IL-27 is expressed in activated antigen presenting cells including monocytes, endothelial cells, and dendritic cells, for example mouse CD4 splenocytes. This purified antibody has been tested for use in western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 34 kDa in size corresponding to the mature mouse 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 - 1:50,000**IHC:** 1:500-1:2,500**WB:** 1:1,000-1:5,000

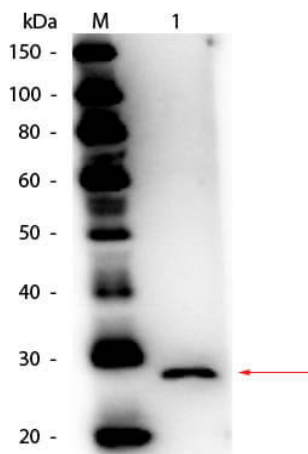
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store Anti-EBI-3 / IL27 beta Antibody Peroxidase Conjugated 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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of Rabbit anti-Mouse EBI-3 Antibody Peroxidase Conjugated. Lane 1: Mouse EBI-3 Recombinant Protein. Load: 100  $\mu$ g per lane. Primary antibody: Rabbit anti-Mouse EBI-3 Antibody Peroxidase Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: n/a. Block: MB-070 for 1 HR at RT. Predicted/Observed size: 25 kDa, 27 kDa for Mouse EBI-3.

## Disclaimer

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