Anti-Mouse EBI-3 (MOUSE) Monoclonal Antibody - 210-301-B66S

Code: 210-301-B66S **Size:** 25 µL

Product Description: Anti-Mouse EBI-3 (MOUSE) Monoclonal Antibody - 210-301-B66S

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

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Mouse
Gene Name	EBI3
Species Reactivity	Mouse
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Synonyms	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
Application Note	Anti-Mouse EBI-3 antibody has been tested for use in ELISA , IP, and Neutralization. Specific conditions for reactivity should be optimized by the end user.
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.
Purity And Specificity	Anti-Mouse EBI-3 (MOUSE) Monoclonal Antibody was purified from mouse ascites by Protein A chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse EBI3 protein. A BLAST analysis was used to suggest cross-reactivity with EBI3 from mouse sources based on 100% homology with the immunizing sequence. Cross-reactivity with EBI-3 from other sources has not been determined.
Assay Dilutions	User Optimized
ELISA	1:10,000
WESTERN BLOT	1:1000
NEUTRALIZATION	10µg/mL
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Anti-EBI-3 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with mature full length recombinant mouse EBI-3 produced in E.coli followed by hybridoma development.
General Reference	Lyakh L, Trinchieri G, Provezza L, Carra G, and Gerosa F. Regulation of interleukin-12/interleukin-23 production and the T-helper 17 response in humans. Immunol Rev. 226: 112-131. 2008. Pflanz S., Timans J.C., Cheung J., Rosales R., Kanzler H., Gilbert J., Hibbert L., Churakova T., Travis M.,

Vaisberg E., Blumenschein W.M., Mattson J.D., Wagner J.L., To W., Zurawski S., McClanahan T.K., Gorman D.M., Bazan J.F., Kastelein R.A (2002). IL-27, a heterodimeric cytokine composed of EBI3 and p28 protein, induces proliferation of naive CD4(+) T cells. Immunity 16:779-790 [PubMed: 12121660]

Collison LW, Workman CJ, Kuo TT, Boyd K, Wang Y, Vignali KM, Cross R, Sehy D, Blumberg RS, and Vignali DAA. (2007) The inhibitory cytokine IL-35 contributes to regulatory T-cell function. Nature 450 (7169): 566-9. doi:10.1038/nature06306. PMID 18033300

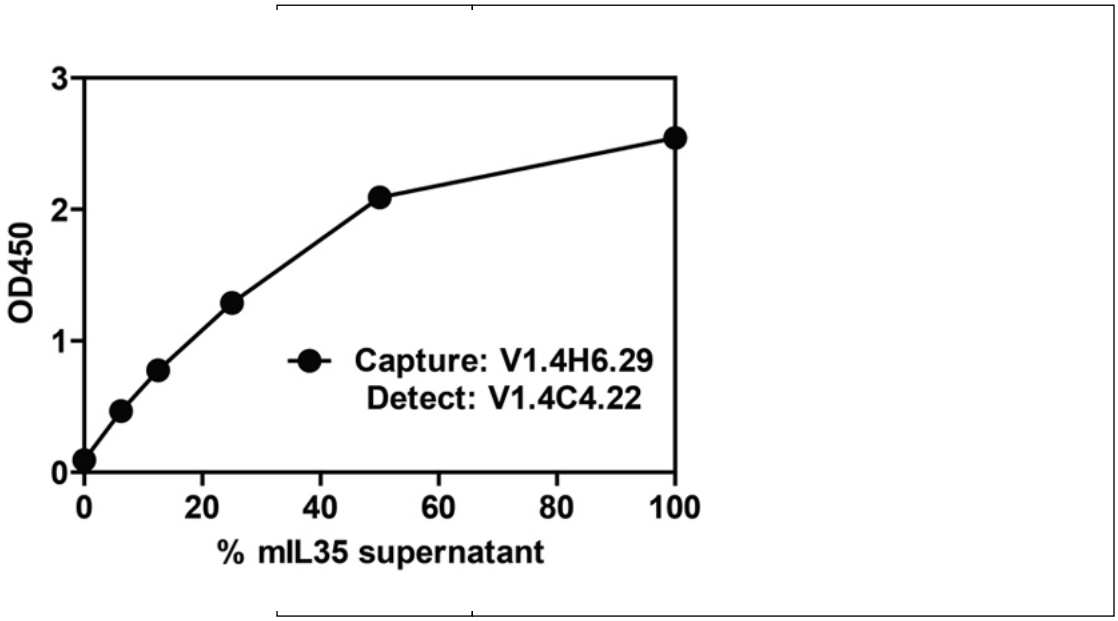
Related Products

010-001-B66	EBI-3 Mouse Recombinant Protein - 010-001-B66(1)
210-401-B66	Anti-Mouse EBI-3 (RABBIT) Antibody - 210-401-B66
210-406-B54	Anti-Mouse IL-27/p28 (RABBIT) Antibody Biotin Conjugated - 210-406-B54

Related Links

Images

1	ELISA - EBI-3 Antibody. Supernatant from 293T cells transfected with a vector containing murine IL-35 was added to an ELISA plate coated with V1.4H6.29 at 2ug/ml in PBS. mEBI3 was detected with biotinylated V1.4C4.22.



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