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Product datasheet for TA336879

EBI3 Rat Monoclonal Antibody [Clone ID: 10J803]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10J803
Applications:	FC, WB
Recommended Dilution:	Flow Cytometry: 1-3 ug/10^6 cells, Western Blot: 0.1-3 ug/ml
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Full-length recombinant mouse EBI3 protein
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Epstein-Barr virus induced 3
Database Link:	NP_005746 Entrez Gene 50498 Mouse Q14213

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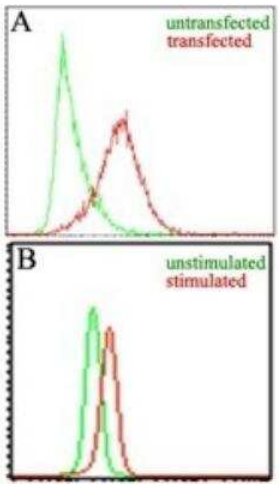
Background: EBI3 (Epstein-Barr virus Induced-3) is a secreted glycoprotein of the hematopoietin receptor family. It plays a critical regulatory role in the induction of Th2-type immune responses and the development of Th2-mediated tissue inflammation in vivo, which may be mediated through the control of iNKT cell function. EBI3 dimerizes with p28 and p35 subunits of IL-12 to form new proteins IL-27 and IL-35, respectively (Honglian Tong et al, 2010). IL-27 is an early product of activated antigen presenting cell that is produced upon TLR ligation. It negatively regulates Th17 cell differentiation. EBI3 is widely expressed and its expression in dendritic cell is transcriptionally regulated by TLR signaling via MyD88 and NF-kappaB during innate immune responses preceding cytokine driven Th cell development. EBI3 signal inhibits delayed-type hypersensitivity responses by suppressing IL-17 production and inducing IL-10 hyperproduction. EBI3 may play a novel role in controlling tumor metastasis via lung CD8+ T cells, and its deficiency is associated with a diminished production of Th2 cytokines which are known to regulate allergic airway inflammation in asthma. Targeted deletion of EBI3 protects mice from lung metastasis (Kerstin A et al, 2008).

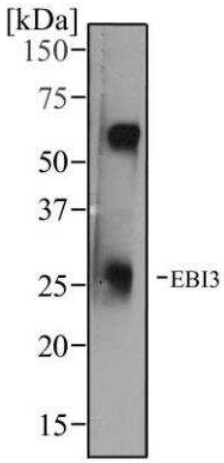
Synonyms: IL-27B; IL27B

Protein Families: Druggable Genome, Secreted Protein

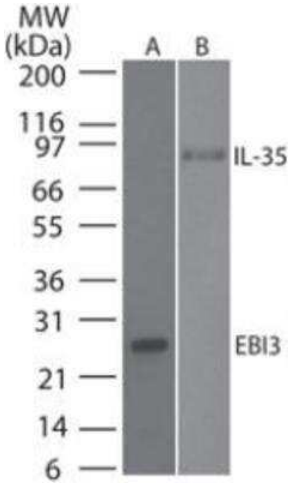
Product images:



Flow Cytometry: IL-27/IL-35 EBI3 Subunit Antibody (10J803) TA336879 - Figure A: Intracellular analysis of mouse IL-35 in transfected and untransfected HEK 293 cells (Brefeldin A treated, 5 hours) using mouse EBI3 antibody at 3 ug/10^6 cells. Figure B: Intracellular analysis of mouse EBI3 in stimulated and unstimulated RAW cells (LPS treated, 50 ng/ml, overnight) using mouse EBI3 antibody at 1.5 ug/10^6 cells.



Western Blot: IL-27/IL-35 EBI3 Subunit Antibody (10J803) TA336879 - Analysis of mouse thymus tissue using EBI3 antibody at a concentration of 1 ug/ml.



Western Blot: IL-27/IL-35 EBI3 Subunit Antibody (10J803) TA336879 - Western blot testing of mouse EBI3 monoclonal antibody at A) 0.1 ug/ml on recombinant protein and B) 3 ug/ml on recombinant mouse IL-35 protein. Goat anti-rat Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.