

## ARG70176

## Mouse IL27B / EBI3 recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg

Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | E. coli expressed, His-tagged (C-ter) Active Mouse IL27B / EBI3 recombinant protein   |
| Tested Application  | SDS-PAGE  |
| Target Name         | IL27B / EBI3  |
| Species             | Mouse   |
| A.A. Sequence       | Ala23 - Pro228  |
| Expression System   | E. coli   |
| Activity            | Active  |
| Activity Note       | Determined by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED50 for this effect is < 5 ng/mL. |
| Alternate Names     | EBV-induced gene 3 protein; IL-27 subunit beta; IL27B; Epstein-Barr virus-induced gene 3 protein; Interleukin-27 subunit beta; IL-27B   |

### Properties

|                     |   |
|---------------------|---|
| Form                | Powder  |
| Purification Note   | Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test.   |
| Purity              | > 95% (by SDS-PAGE)   |
| Buffer              | PBS (pH 7.4)  |
| Reconstitution      | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.                                     |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

### Bioinformation

|                |  |
|----------------|--|
| Gene Symbol    | EBI3   |
| Gene Full Name | Epstein-Barr virus induced 3   |
| Background     | This gene was identified by its induced expression in B lymphocytes in response Epstein-Barr virus infection. It encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form interleukin 27 (IL-27). IL-27 regulates T cell and inflammatory responses, in part by activating the Jak/STAT pathway of CD4+ T cells. [provided by RefSeq, Sep 2008] |
| Function       | Associates with IL27 to form the IL-27 interleukin, a heterodimeric cytokine which functions in innate immunity. IL-27 has pro- and anti-inflammatory properties, that can regulate T-helper cell development, suppress T-cell proliferation, stimulate cytotoxic T-cell activity, induce isotype switching  |

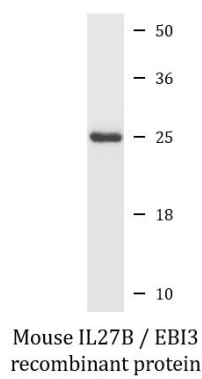
in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T-helper cells which can differentiate in type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. It also strongly synergizes with IL-12 to trigger interferon-gamma/IFN-gamma production of naive CD4 T-cells, binds to the cytokine receptor WSX-1/TCCR. Another important role of IL-27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines. [UniProt]

#### Cellular Localization

Secreted. [UniProt]

## Images

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ARG70176 Mouse IL27B / EBI3 recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70176 Mouse IL27B / EBI3 recombinant protein (Active) (His-tagged, C-ter).