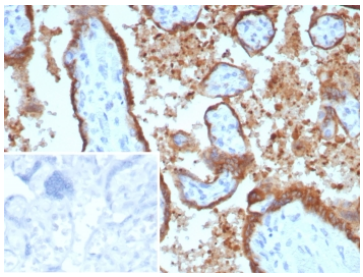
# EBI3 Antibody / Epstein-Barr virus induced 3 [clone EBI3/8902] (V4603)

| Catalog No. | Formulation | Size |
|---|---|---|
| V4603-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4603-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V4603SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | EBI3/8902 |
| **Purity** | Protein A/G affinity |
| **UniProt** | Q14213 |
| **Localization** | Secreted |
| **Applications** | ELISA (Order BSA-free Format For Coating) :<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| **Limitations** | This EBI3 antibody is available for research use only. |



IHC staining of FFPE human placental tissue with EBI3 antibody (clone EBI3/8902). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

## Description

Epstein-Barr virus-induced gene 3 (Ebi3) is a widely expressed homolog to the interleukin IL-12 p40 subunit protein that forms a heterodimer with either IL-12 p35 or an IL-12 p35 homolog, p28, to create a new cytokine (IL-27). IL-27 is an early product of activated antigen-presenting cells and drives rapid clonal expansion of naive but not memory CD4+ T

cells. Interferon-b differentially regulates expression of the IL-12 family members p35, p40, p19 and Ebi3 in activated human dendritic cells. Ebi3 may function to antagonize IL-12 and to inhibit the development of a Th1 immune response. Ebi3 is strongly expressed in Hodgkin and Reed-Sternberg cells, independently of the EBV status of the tumor cells. Research suggests that Ebi3 may be an additional component of the repertoire employed by Hodgkin and Reed-Sternberg cells to inhibit an effective anti-tumor or anti-viral immune response. The human Ebi3 gene maps to chromosome 19p13.3 and encodes a secreted glycoprotein that is expressed in spleen and tonsils, and at high levels in full-term placenta.

## Application Notes

Optimal dilution of the EBI3 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 366-466) from the human protein was used as the immunogen for the EBI3 antibody.

## Storage

Aliquot the EBI3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.