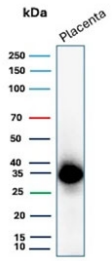
Epstein-Barr virus induced 3 Antibody / EBI3 [clone EBI3/8906] (V4606)

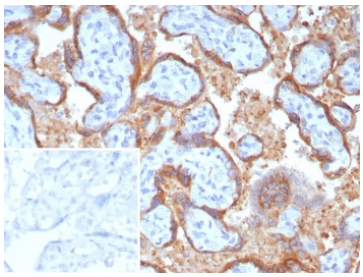
Catalog No.	Formulation	Size
V4606-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4606-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4606SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

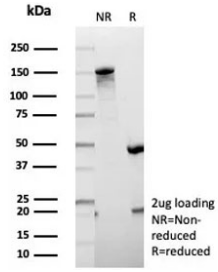
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	EBI3/8906
Purity	Protein A/G affinity
UniProt	Q14213
Localization	Secreted
Applications	ELISA (Order BSA-free format for coating) Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Epstein-Barr virus induced 3 antibody is available for research use only.



Western blot testing of human placental tissue lysate with EBI3 antibody (clone EBI3/8906). Predicted molecular weight ~25 kDa but may be observed at higher molecular weights due to glycosylation.



IHC staining of FFPE human placental tissue with Epstein-Barr virus induced 3 antibody (clone EBI3/8906). 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.



SDS-PAGE analysis of purified, BSA-free EBI3 antibody (clone EBI3/8906) as confirmation of integrity and purity.

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 Epstein-Barr virus induced 3 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 Epstein-Barr virus induced 3 antibody.

Storage

Aliquot the Epstein-Barr virus induced 3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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