

## **EBI3 Antibody (clone DNT27)**

Rat Monoclonal Antibody Catalog # ALS14238

### **Specification**

## EBI3 Antibody (clone DNT27) - Product Information

Application WB, IHC Primary Accession Q14213

Reactivity Human, Mouse

Host Rat

Clonality Monoclonal Calculated MW 25kDa KDa

# EBI3 Antibody (clone DNT27) - Additional Information

**Gene ID** 10148

#### **Other Names**

Interleukin-27 subunit beta, IL-27 subunit beta, IL-27B, Epstein-Barr virus-induced gene 3 protein, EBV-induced gene 3 protein, EBI3, IL27B

### **Reconstitution & Storage**

Store at 4°C, avoid repeated freeze thaw cycles.

#### **Precautions**

EBI3 Antibody (clone DNT27) is for research use only and not for use in diagnostic or therapeutic procedures.

### EBI3 Antibody (clone DNT27) - Protein Information

Name EBI3

Synonyms IL27B

#### **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.

#### **Cellular Location**

Secreted.



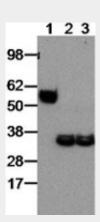
**Volume** 50 μl

# EBI3 Antibody (clone DNT27) - Protocols

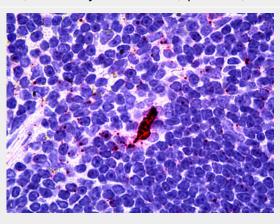
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## EBI3 Antibody (clone DNT27) - Images



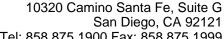
Recombinant mouse EBI3/p28 (covalently linked IL-27) protein (lane 1) and mouse bone...



Anti-EBI3 antibody IHC of human lymphoid-dendritic cells.

# EBI3 Antibody (clone DNT27) - Background

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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.

# EBI3 Antibody (clone DNT27) - References

Devergne O., et al. J. Virol. 70:1143-1153(1996). Livingston R.J., et al. Submitted (OCT-2006) to the EMBL/GenBank/DDBJ databases. Grimwood J., et al. Nature 428:529-535(2004). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Devergne O., et al. Proc. Natl. Acad. Sci. U.S.A. 94:12041-12046(1997).