

## **Anti-ICOS / CD278 Reference Antibody (alomfilimab)**

Recombinant Antibody Catalog # APR10481

### **Specification**

## Anti-ICOS / CD278 Reference Antibody (alomfilimab) - Product Information

Application
Primary Accession
Reactivity
Clonality
Isotype
Calculated MW

FC, Kinetics, Animal Model O9Y6W8
Human, Mouse
Monoclonal
IgG1
146.5 KDa

# Anti-ICOS / CD278 Reference Antibody (alomfilimab) - Additional Information

Target/Specificity ICOS / CD278

**Endotoxin** 

< 0.001EU/ µg,determined by LAL method.

**Conjugation** Unconjugated

Expression system CHO Cell

**Format** 

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Anti-ICOS / CD278 Reference Antibody (alomfilimab) - Protein Information

Name ICOS

Synonyms AILIM

### **Function**

Stimulatory receptor expressed in activated or antigen- experienced T-cells that plays an important role in the immune response (PubMed:<a

href="http://www.uniprot.org/citations/9930702" target="\_blank">9930702</a>). Upon binding to its ligand ICOSL expressed on antigen presenting cells (APCs), delivers costimulatory signals that enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines including IL10, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells (PubMed:<a

href="http://www.uniprot.org/citations/33033255" target="\_blank">33033255</a>). Also acts as a costimulatory receptor critical for the differentiation of T follicular regulatory cells upon immune challenges such as viral infection (PubMed:<a href="http://www.uniprot.org/citations/27135603"



target="\_blank">27135603</a>). Mechanistically, potentiates TCR-induced calcium flux by augmenting PLCG1 activation and actin remodeling (By similarity). In addition, activates PI3K signaling pathways independently of calcium flux (PubMed:<a

href="http://www.uniprot.org/citations/30523347" target="\_blank">30523347</a>). Essential both for efficient interaction between T and B-cells and for normal antibody responses to T-cell dependent antigens. Prevents the apoptosis of pre-activated T-cells. Plays a critical role in CD40-mediated class switching of immunoglobin isotypes (By similarity).

#### **Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein

### **Tissue Location**

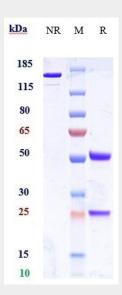
Activated T-cells. Highly expressed on tonsillar T- cells, which are closely associated with B-cells in the apical light zone of germinal centers, the site of terminal B-cell maturation Expressed at lower levels in thymus, lung, lymph node and peripheral blood leukocytes. Expressed in the medulla of fetal and newborn thymus

### Anti-ICOS / CD278 Reference Antibody (alomfilimab) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

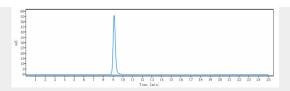
## Anti-ICOS / CD278 Reference Antibody (alomfilimab) - Images



Anti-ICOS / CD278 Reference Antibody (alomfilimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%







The purity of Anti-ICOS / CD278 Reference Antibody (alomfilimab) is more than 95% , determined by SEC-HPLC.