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Anti-ICOS / CD278 Reference Antibody (feladilimab)

Recombinant Antibody
Catalog # APR10123

Specification

Anti-ICOS / CD278 Reference Antibody (feladilimab) - Product Information

Application	**FC, E, FTA**
Primary Accession	Q9Y6W8
Reactivity	**Cynomolgus, Human**
Clonality	**Monoclonal**
Isotype	**IgG4PE**
Calculated MW	**145.52 KDa**

Anti-ICOS / CD278 Reference Antibody (feladilimab) - 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 (feladilimab) - 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:9930702). 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:33033255). Acts also 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). 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:30523347). 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

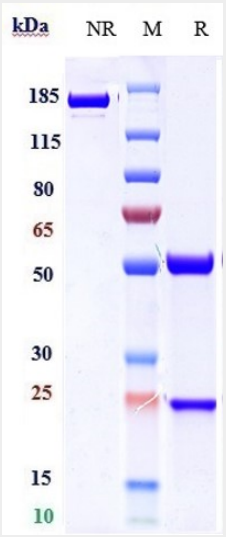
Tissue Location
Activated T-cells. Highly expressed on tonsillar T- cells, which are closely associated with B-cells in the apical light zone of germinal centers, the site of terminal B-cell maturation Expressed at lower levels in thymus, lung, lymph node and peripheral blood leukocytes. Expressed in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

Anti-ICOS / CD278 Reference Antibody (feladilimab) - 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

Anti-ICOS / CD278 Reference Antibody (feladilimab) - Images



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

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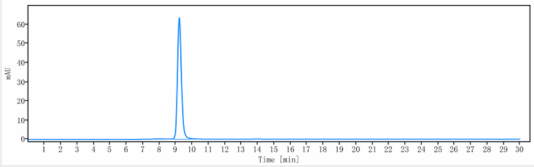
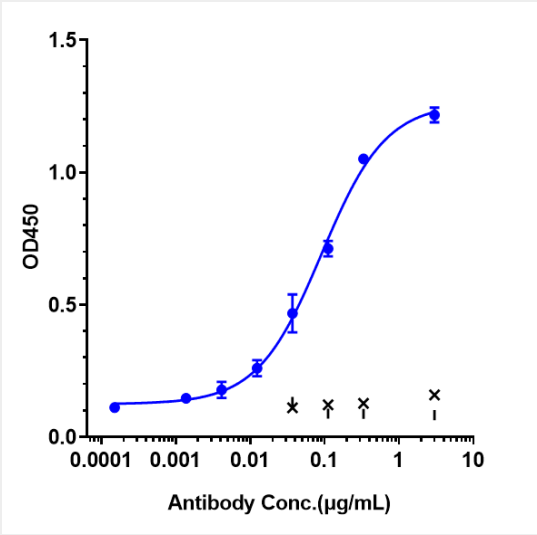


The purity of Anti-ICOS / CD278 Reference Antibody (feladilimab)is more than 99.12% ,determined by SEC-HPLC.



Immobilized human ICOS FC at 2 μg/mL can bind Anti-ICOS / CD278 Reference Antibody (feladilimab)，EC50=0.09127 μg/mL