10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-CD278-AcalephFluor568-labled

Catalog # AP101838

## Product Information

| | |
|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | Q9Y6W8 |
| **Other Accession** | Q9WVS0, Q9R1T7 |
| **Reactivity** | Human, Mouse |
| **Clonality** | Monoclonal |
| **Calculated MW** | 22625 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 29851 |
| **Other Names** | AILIM; Inducible T-cell costimulator; Activation-inducible lymphocyte immunomediatory molecule; CD278 |
| **Target/Specificity** | Recognizes human/mouse/rat CD278 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Armenian Hamster IgG. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## 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). Also acts as a costimulatory receptor critical for the differentiation of T follicular regulatory cells upon immune challenges such as viral infection (PubMed: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 |

## Background

AcalephFluor568-labled armenian hamster monoclonal antibody to CD278

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.