

**CD69 Antibody (clone 8B6)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13196****Specification**

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**CD69 Antibody (clone 8B6) - Product Information**

Application	<b>WB, IHC-P, E, FC</b>
Primary Accession	<a href="#">Q07108</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Calculated MW	<b>23kDa KDa</b>
Dilution	<b>WB~~1:1000</b> <b>IHC-P~~N/A</b> <b>E~~N/A</b> <b>FC~~1:10~50</b>

**CD69 Antibody (clone 8B6) - Additional Information****Gene ID** 969**Other Names**

Early activation antigen CD69, Activation inducer molecule, AIM, BL-AC/P26, C-type lectin domain family 2 member C, EA1, Early T-cell activation antigen p60, GP32/28, Leukocyte surface antigen Leu-23, MLR-3, CD69, CD69, CLEC2C

**Target/Specificity**

Human CD69

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CD69 Antibody (clone 8B6) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD69 Antibody (clone 8B6) - Protein Information****Name** CD69**Synonyms** CLEC2C**Function**

Transmembrane protein expressed mainly on T-cells resident in mucosa that plays an essential role in immune cell homeostasis. Rapidly expressed on the surface of platelets, T-lymphocytes and NK cells upon activation by various stimuli, such as antigen recognition or cytokine signaling, stimulates different signaling pathways in different cell types (PubMed:<a href="http://www.uniprot.org/citations/24752896" target="\_blank">24752896</a>, PubMed:<a

<http://www.uniprot.org/citations/26296369> target="\_blank">26296369</a>, PubMed:<a href="http://www.uniprot.org/citations/35930205" target="\_blank">35930205</a>). Negatively regulates Th17 cell differentiation through its carbohydrate dependent interaction with galectin-1/LGALS1 present on immature dendritic cells (PubMed:<a href="http://www.uniprot.org/citations/24752896" target="\_blank">24752896</a>). Association of CD69 cytoplasmic tail with the JAK3/STAT5 signaling pathway regulates the transcription of RORgamma/RORC and, consequently, differentiation toward the Th17 lineage (By similarity). Also acts via the S100A8/S100A9 complex present on peripheral blood mononuclear cells to promote the conversion of naive CD4 T-cells into regulatory T-cells (PubMed:<a href="http://www.uniprot.org/citations/26296369" target="\_blank">26296369</a>). Acts as an oxidized low-density lipoprotein (oxLDL) receptor in CD4 T- lymphocytes and negatively regulates the inflammatory response by inducing the expression of PDCD1 through the activation of NFAT (PubMed:<a href="http://www.uniprot.org/citations/35930205" target="\_blank">35930205</a>). Participates in adipose tissue-derived mesenchymal stem cells (ASCs)-mediated protection against P.aeruginosa infection. Mechanistically, specifically recognizes P.aeruginosa to promote ERK1 activation, followed by granulocyte-macrophage colony-stimulating factor (GM-CSF) and other inflammatory cytokines secretion (PubMed:<a href="http://www.uniprot.org/citations/34841721" target="\_blank">34841721</a>). In eosinophils, induces IL-10 production through the ERK1/2 pathway (By similarity). Negatively regulates the chemotactic responses of effector lymphocytes and dendritic cells (DCs) to sphingosine 1 phosphate/S1P by acting as a S1PR1 receptor agonist and facilitating the internalization and degradation of the receptor (PubMed:<a href="http://www.uniprot.org/citations/37039481" target="\_blank">37039481</a>).

#### Cellular Location

Cell membrane; Single-pass type II membrane protein

#### Tissue Location

Expressed on the surface of activated T-cells, B- cells, natural killer cells, neutrophils, eosinophils, epidermal Langerhans cells and platelets

#### Volume

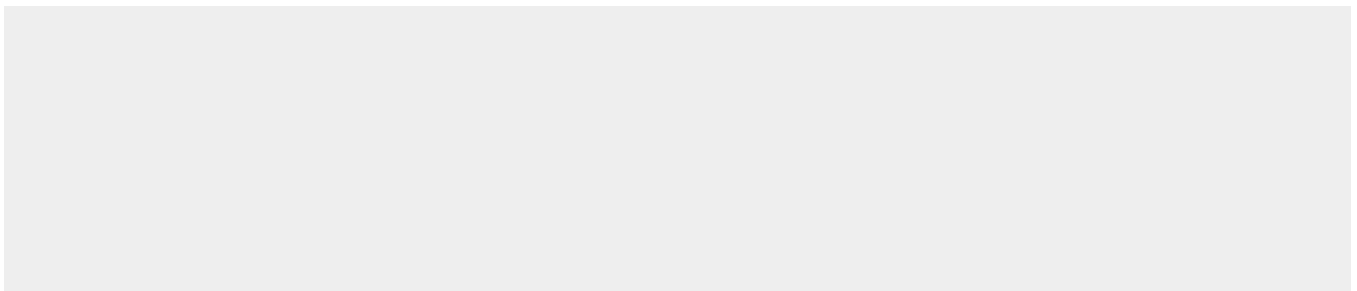
50 µl

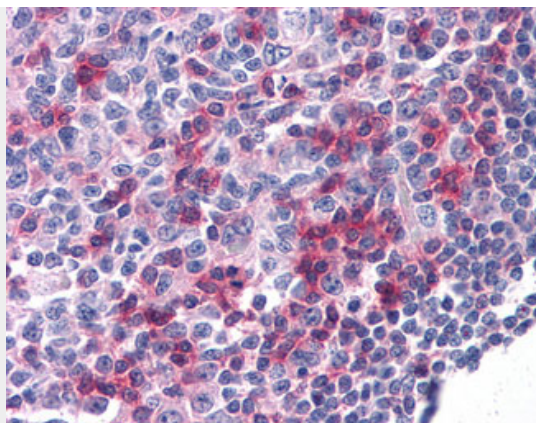
#### CD69 Antibody (clone 8B6) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### CD69 Antibody (clone 8B6) - Images





Anti-CD69 antibody IHC of human tonsil.

### **CD69 Antibody (clone 8B6) - Background**

Involved in lymphocyte proliferation and functions as a signal transmitting receptor in lymphocytes, natural killer (NK) cells, and platelets.

### **CD69 Antibody (clone 8B6) - References**

- Hamann J.,et al.J. Immunol. 150:4920-4927(1993).
- Lopez-Cabrera M.,et al.J. Exp. Med. 178:537-547(1993).
- Ziegler S.F.,et al.Eur. J. Immunol. 23:1643-1648(1993).
- Santis A.,et al.Eur. J. Immunol. 24:1692-1697(1994).
- Natarajan K.,et al.Biochemistry 39:14779-14786(2000).