

**CD69 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14909****Specification**

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**CD69 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">Q07108</a>
Other Accession	<a href="#">NM_001781</a> , <a href="#">NP_001772</a>
Reactivity	Human, Mouse, Rat, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22kDa KDa

**CD69 antibody - middle region - Additional Information****Gene ID** 969**Alias Symbol** CLEC2C, AIM, EA1, MLR-3, GP32/28, BL-AC/P26**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

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-CD69 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CD69 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**CD69 antibody - middle region - 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:&lt;a

[24752896](http://www.uniprot.org/citations/24752896), PubMed: [26296369](http://www.uniprot.org/citations/26296369), PubMed: [35930205](http://www.uniprot.org/citations/35930205)). Negatively regulates Th17 cell differentiation through its carbohydrate dependent interaction with galectin-1/LGALS1 present on immature dendritic cells (PubMed: [24752896](http://www.uniprot.org/citations/24752896)). 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). Acts also 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: [26296369](http://www.uniprot.org/citations/26296369)). 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: [35930205](http://www.uniprot.org/citations/35930205)). 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: [34841721](http://www.uniprot.org/citations/34841721)). 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: [37039481](http://www.uniprot.org/citations/37039481)).

#### Cellular Location

Cell membrane; Single-pass type II membrane protein

#### Tissue Location

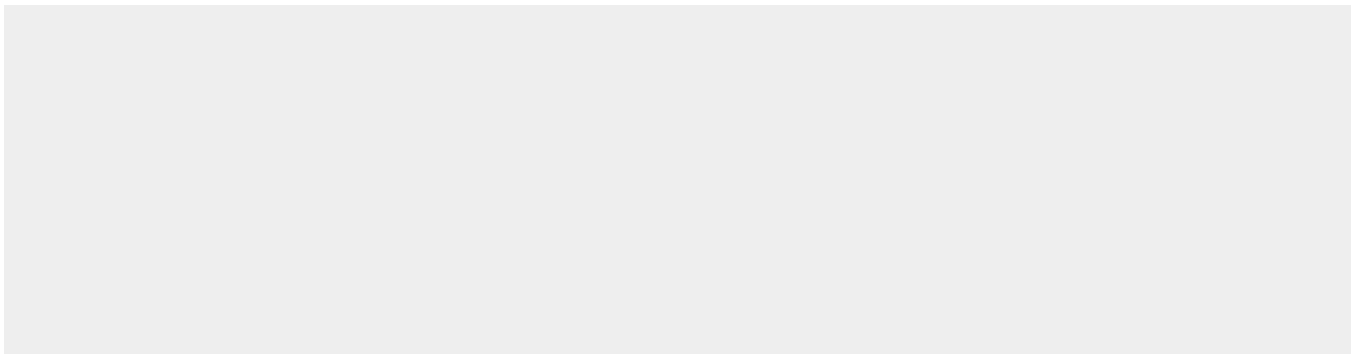
Expressed on the surface of activated T-cells, B- cells, natural killer cells, neutrophils, eosinophils, epidermal Langerhans cells and platelets

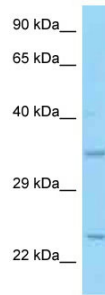
#### CD69 antibody - middle region - Protocols

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 - middle region - Images





WB Suggested Anti-CD69 Antibody Titration: 1.0 µg/ml  
Positive Control: HCT15 Whole Cell

### **CD69 antibody - middle region - 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).