

**GPR65 / TDAG8 Antibody (Extracellular Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10422**

**Specification**

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**GPR65 / TDAG8 Antibody (Extracellular Domain) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">Q8IYL9</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39kDa KDa
Dilution	IHC-P~~N/A

**GPR65 / TDAG8 Antibody (Extracellular Domain) - Additional Information**

**Gene ID** 8477

**Other Names**

Psychosine receptor, G-protein coupled receptor 65, T-cell death-associated gene 8 protein, GPR65, TDAG8

**Target/Specificity**

Human GPR65. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except VCL (50%), CPS1 (39%).

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

GPR65 / TDAG8 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPR65 / TDAG8 Antibody (Extracellular Domain) - Protein Information**

**Name** GPR65 {ECO:0000303|PubMed:27287411, ECO:0000312|HGNC:HGNC:4517}

**Function**

Proton-sensing G-protein coupled receptor activated by extracellular pH, which is required to monitor pH changes and generate adaptive reactions (PubMed:<a href="http://www.uniprot.org/citations/15326175" target="\_blank">15326175</a>, PubMed:<a href="http://www.uniprot.org/citations/15618224" target="\_blank">15618224</a>, PubMed:<a href="http://www.uniprot.org/citations/20855608" target="\_blank">20855608</a>, PubMed:<a href="http://www.uniprot.org/citations/33478938" target="\_blank">33478938</a>, PubMed:<a href="http://www.uniprot.org/citations/37722051" target="\_blank">37722051</a>, PubMed:<a href="http://www.uniprot.org/citations/39753132" target="\_blank">39753132</a>). Activated by an optimal pH of 7.4 (PubMed:<a href="http://www.uniprot.org/citations/39753132" target="\_blank">39753132</a>). Ligand binding causes a conformation change that triggers

signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:<a href="http://www.uniprot.org/citations/15326175" target="\_blank">15326175</a>, PubMed:<a href="http://www.uniprot.org/citations/15618224" target="\_blank">15618224</a>, PubMed:<a href="http://www.uniprot.org/citations/37722051" target="\_blank">37722051</a>, PubMed:<a href="http://www.uniprot.org/citations/39753132" target="\_blank">39753132</a>). GPR65 is mainly coupled to G(s) G proteins and mediates activation of adenylate cyclase activity (PubMed:<a href="http://www.uniprot.org/citations/15618224" target="\_blank">15618224</a>, PubMed:<a href="http://www.uniprot.org/citations/37722051" target="\_blank">37722051</a>, PubMed:<a href="http://www.uniprot.org/citations/39753132" target="\_blank">39753132</a>). May also act as a receptor for the glycosphingolipid psychosine (PSY) and several related glycosphingolipids (PubMed:<a href="http://www.uniprot.org/citations/11309421" target="\_blank">11309421</a>, PubMed:<a href="http://www.uniprot.org/citations/15326175" target="\_blank">15326175</a>). Plays a role in immune response by maintaining lysosome function and regulating T-cell metabolism (PubMed:<a href="http://www.uniprot.org/citations/27287411" target="\_blank">27287411</a>). Acts as a regulator of inflammation by mediating pH-sensing of extracellular acidification which takes place in inflamed tissues: activation regulates endo-lysosomal function of immune cells and T-cell metabolism (By similarity). Constitutively active in endosomes and stimulates adenylate cyclase production from endosomes independently from extracellular pH changes (PubMed:<a href="http://www.uniprot.org/citations/39753132" target="\_blank">39753132</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Note=Internalizes and localizes to early and late endosomes, from where GPR65 signals at steady state, irrespective of extracellular pH (PubMed:39753132). Changes in extracellular pH may relocalize receptor signaling to the cell membrane (PubMed:39753132).

#### Tissue Location

Predominantly expressed in thymus, spleen, lymph nodes, small intestine, lung, placenta and peripheral blood leukocytes

#### Volume

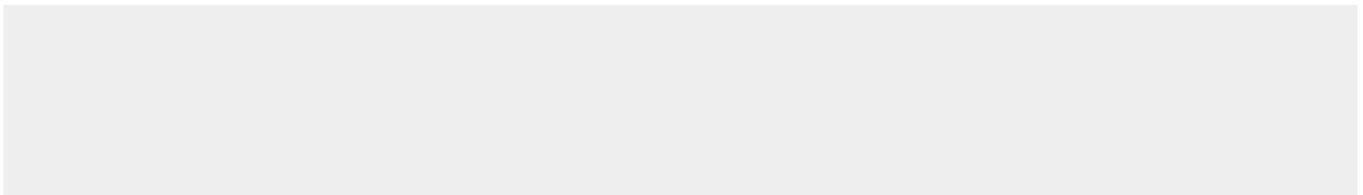
50 µl

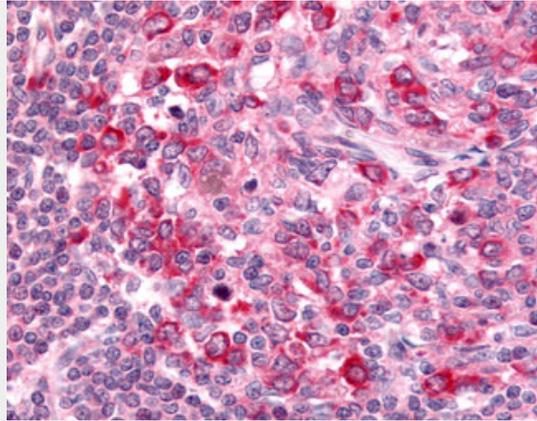
### GPR65 / TDAG8 Antibody (Extracellular Domain) - Protocols

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](#)

### GPR65 / TDAG8 Antibody (Extracellular Domain) - Images





Anti-GPR65 antibody ALS10422 IHC of human lymph node.

#### **GPR65 / TDAG8 Antibody (Extracellular Domain) - Background**

Receptor for the glycosphingolipid psychosine (PSY) and several related glycosphingolipids. May have a role in activation- induced cell death or differentiation of T-cells.

#### **GPR65 / TDAG8 Antibody (Extracellular Domain) - References**

Kyaw H.,et al.DNA Cell Biol. 17:493-500(1998).  
Heilig R.,et al.Nature 421:601-607(2003).  
Im D.-S.,et al.J. Cell Biol. 153:429-434(2001).