

#### GPR132 / G2A Antibody (Cytoplasmic Domain) Rabbit Polyclonal Antibody

Catalog # ALS10413

### Specification

### **GPR132** / **G2A** Antibody (Cytoplasmic Domain) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Dilution IHC-P <u>O9UNW8</u> Human Rabbit Polyclonal 42kDa KDa IHC-P~~N/A

#### GPR132 / G2A Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 29933

**Other Names** Probable G-protein coupled receptor 132, G2 accumulation protein, GPR132, G2A

**Target/Specificity** Human GPR132 / G2A. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage** Long term: -70°C; Short term: +4°C

**Precautions** GPR132 / G2A Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

### GPR132 / G2A Antibody (Cytoplasmic Domain) - Protein Information

Name GPR132

Synonyms G2A

Function

May be a receptor for oxidized free fatty acids derived from linoleic and arachidonic acids such as 9-hydroxyoctadecadienoic acid (9-HODE). Activates a G alpha protein, most likely G alpha(q). May be involved in apoptosis. Functions at the G2/M checkpoint to delay mitosis. May function as a sensor that monitors the oxidative states and mediates appropriate cellular responses such as secretion of paracrine signals and attenuation of proliferation. May mediate ths accumulation of intracellular inositol phosphates at acidic pH through proton-sensing activity.

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein. Note=Internalized and accumulated in endosomal



compartments. LPC triggers the relocalization from the endosomal compartment to the cell surface (By similarity).

**Tissue Location** 

Highly expressed in macrophages and hematopoietic tissues rich in lymphocytes, like spleen and thymus. Weakly expressed in heart and lung. In atherosclerotic plaques, expression is observed around the lipid core and at the shoulder region

Volume 50 μl

#### **GPR132** / **G2A** Antibody (Cytoplasmic Domain) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

GPR132 / G2A Antibody (Cytoplasmic Domain) - Images



Anti-GPR132 / G2A antibody IHC of human Lymph Node, Non-Hodgkins Lymphoma.





Anti-GPR132 / G2A antibody IHC of human Lymph Node, Hodgkins Lymphoma.



Anti-GPR132 / G2A antibody ALS10413 IHC of human spleen.

# GPR132 / G2A Antibody (Cytoplasmic Domain) - Background

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# GPR132 / G2A Antibody (Cytoplasmic Domain) - References

Weng Z.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:12334-12339(1998). Ogawa A.,et al.J. Pharmacol. Exp. Ther. 332:469-478(2010). Kaighin V.A.,et al.Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases. Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).