



# G2A Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-13268
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Monkey
<b>Applications</b>	WB;IF;ELISA
<b>Gene Name</b>	GPR132
<b>Protein Name</b>	Probable G-protein coupled receptor 132
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GPR132. AA range:293-342
<b>Specificity</b>	G2A Polyclonal Antibody detects endogenous levels of G2A protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	GPR132; G2A; Probable G-protein coupled receptor 132; G2 accumulation protein
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	Cell membrane ; Multi-pass membrane protein . Internalized and accumulated in endosomal compartments. LPC triggers the relocalization from the endosomal compartment to the cell surface (By similarity). .
<b>Tissue Specificity</b>	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.
<b>Function</b>	caution:Was originally (PubMed:11474113) thought to be a receptor for lysophosphatidylcholine (LPC) and sphingosylphosphorylcholine (SPC), However, this work has been retracted..function:Receptor for an unknown ligand. 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 serve as a mechanism for T- and B-cells, and other cell types, to slow their proliferation and repair damaged DNA to ensure proper replication..induction:By stress and DNA-damaging agents..similarity:Belongs to the G-protein coupled receptor 1 family..subcellular location:Internalized and accumulated in endosomal compartments. LPC triggers the relocalization from the endosomal compartment to the cell surface..tissue specificity:Highly expressed in macrophages and hematopoietic tissues rich in lymphocytes, like spleen and thymus. Weakly e

**Background**

This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein was reported to be a receptor for lysophosphatidylcholine action, but PubMedID: 15653487 retracts this finding and instead suggests this protein to be an effector of lysophosphatidylcholine action. This protein may have proton-sensing activity and may be a receptor for oxidized free fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],

**matters needing attention**

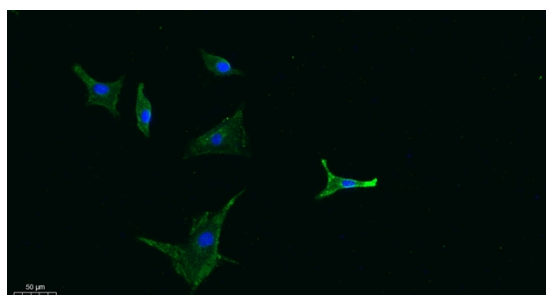
Avoid repeated freezing and thawing!

**Usage suggestions**

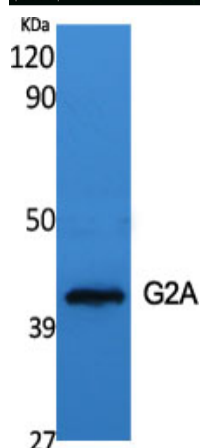
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



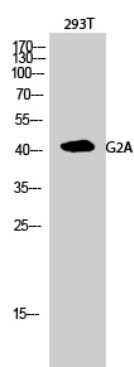
## Products Images



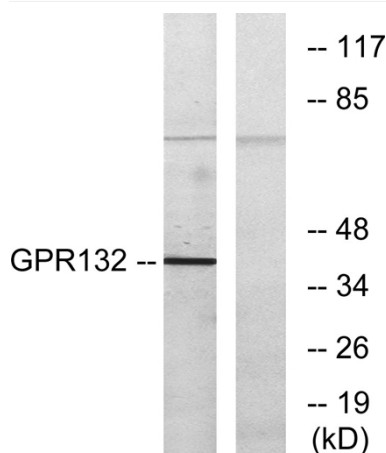
Immunofluorescence analysis of A549. 1, primary Antibody was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.



Western Blot analysis of various cells using G2A Polyclonal Antibody diluted at 1:500



Western Blot analysis of 293T cells using G2A Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from COS7 cells, using GPR132 Antibody. The lane on the right is blocked with the synthesized peptide.