SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GALR2 antibody

Catalog Number: SL11527R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GALR2
Immunogen:	KLH conjugated synthetic peptide derived from human GALR2: 51-150/387 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Sheep)
Predicted MW.:	42kDa
Subcellular Location:	The cell membrane
Background:	Galanin is an important neuromodulator present in the brain, gastrointestinal system, and hypothalamopituitary axis. It is a 30-amino acid non-C-terminally amidated peptide that potently stimulates growth hormone secretion, inhibits cardiac vagal slowing of heart rate, abolishes sinus arrhythmia, and inhibits postprandial gastrointestinal motility. The actions of galanin are mediated through interaction with specific membrane receptors that are members of the 7-transmembrane family of G protein-coupled receptors. GALR2 interacts with the N-terminal residues of the galanin peptide. The primary signaling mechanism for GALR2 is through the phospholipase C/protein kinase C pathway (via Gq), in contrast to GALR1, which communicates its intracellular signal by inhibition of adenylyl cyclase through Gi. However, it has been demonstrated that GALR2 couples efficiently to both the Gq and Gi proteins to simultaneously activate 2 independent signal

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	transduction pathways. [provided by RefSeq, Jul 2008] **Function:** Receptor for the hormone galanin and for GALP. The activity of this receptor is mediated by G proteins that activate the phospholipase C/protein kinase C pathway (via G(q)) and that inhibit adenylyl cyclase. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Expressed abundantly within the central nervous system in both hypothalamus and hippocampus. In peripheral tissues, the strongest expression was observed in heart, kidney, liver, and small intestine. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:**

[VALIDATION IMAGES]

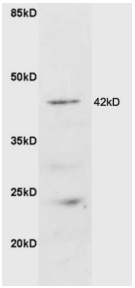


Figure 1. Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti-GALR2 (SL11527R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/5000 dilution Predicted band size: 42 kD Observed band size: 42 kD

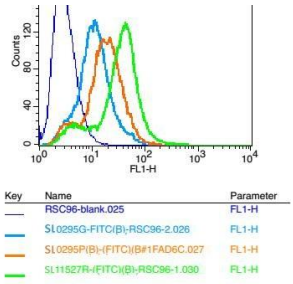


Figure 2. Positive control: RSC96 Isotype Control Antibody: Rabbit IgG; Secondary Antibody: Goat anti-rabbit IgG-FITC, Dilution: 1:100 in 1 X PBS containing 0.5% BSA; Primary Antibody Dilution: 1µg in 100 µL1X PBS containing 0.5% BSA

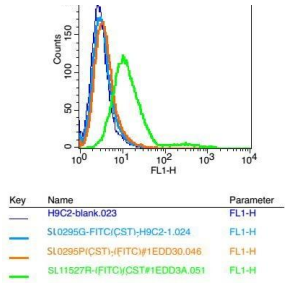


Figure 3. Positive control: H9C2 Isotype Control Antibody: Rabbit IgG; Secondary Antibody: Goat anti-rabbit IgG-FITC, Dilution: 1:100 in 1 X PBS containing 0.5% BSA; Primary Antibody Dilution: 6µg in 100 µL1X PBS containing 0.5% BSA

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