

Product Name: GALR2 Rabbit Polyclonal Antibody
Catalog #: APRab11283



Summary

Production Name	GALR2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	GALR2
Alternative Names	GALR2; GALNR2; Galanin receptor type 2; GAL2-R; GALR-2
Gene ID	8811.0
SwissProt ID	O43603.The antiserum was produced against synthesized peptide derived from human GALR2. AA range:201-250

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000.
Molecular Weight	42kD

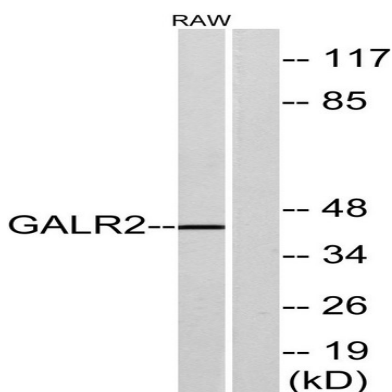
Background

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 simulfunction: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 Gq) and that inhibit adenylyl cyclase (via Gi),similarity:Belongs to the G-protein coupled receptor 1 family.,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.,

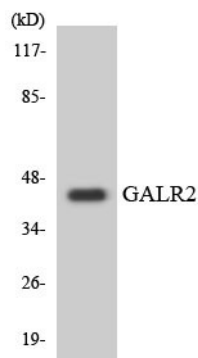
Research Area

Neuroactive ligand-receptor interaction;

Image Data



Western blot analysis of lysates from RAW264.7 cells, using GALR2 Antibody. The lane on the right is blocked with the synthesized peptide.



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Western blot analysis of the lysates from HepG2 cells using GALR2 antibody.

Note

For research use only.