

Product datasheet for **AP01337PU-N**

LGR8 (RXFP2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 120-165 of Human Relaxin Receptor 2.
Specificity:	This antibody detects endogenous levels of Relaxin Receptor 2 protein.
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (>95% by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 86 kDa
Gene Name:	relaxin/insulin like family peptide receptor 2
Database Link:	Entrez Gene 140498 Mouse Entrez Gene 122042 Human Q8WXD0



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Background:

Relaxins are endocrine and autocrine/paracrine hormones belonging to the insulin gene superfamily. In several mammalian species, relaxin is best known for its role during pregnancy and parturition, when it is produced by the corpora lutea of ovaries and other reproductive tissues. The secretion of relaxin into the blood stream just before parturition results in a marked softening and lengthening of the pubic symphysis and a softening of the cervix, which facilitates the birth process. Also, by inhibiting uterine contractions, relaxin may influence the timing of parturition. Two previously characterized orphan receptors designated relaxin receptor 1 (LGR7) and 2 (LGR8) bind relaxin in several tissues, including reproductive tissues, brain, and heart. Upon ligand binding, the relaxin receptors activate adenylate cyclases through Gs proteins. Expression of the relaxin receptors in tissues other than reproductive ones suggests that they have additional physiological functions, such as regulating blood pressure and controlling vascular volume in the heart.

Synonyms:

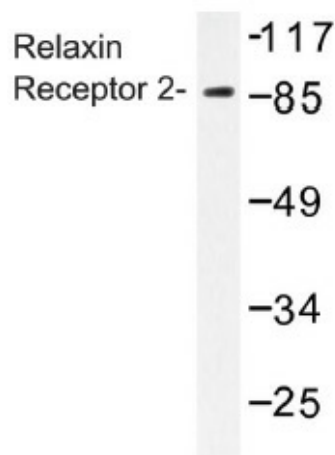
G-protein coupled receptor 106, GPR106, GREAT, LGR8

Protein Families:

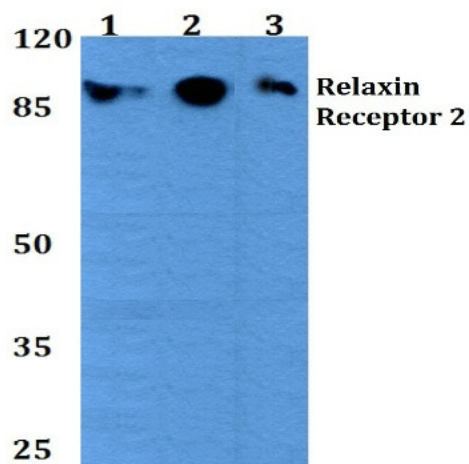
Druggable Genome, Transmembrane

Protein Pathways:

Neuroactive ligand-receptor interaction

Product images:


Western blot analysis of Relaxin Receptor 2 Antibody in extracts from Jurkat cells.



Western blot analysis of Relaxin Receptor 2
Antibody at 1/ 500 dilution: Lane 1: HEK293T
whole cell lysate. Lane 2: RAW264.7 whole cell
lysate. Lane 3: H9C2 whole cell lysate.