

Product datasheet for **AP23449SU-N**

LGR8 (RXFP2) (144-158) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	Immunocytochemistry (1/4000) (Ref.1). Immunohistochemistry (1/4000) (Ref.1).
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic human Relaxin Receptor 2 (aa 144-159) (CLKKNKIHSPLDKVFIK) KLH-coupled
Specificity:	Recognizes Human Relaxin Receptor 2 (144-158). There was no cross reactivity obtained with Human Relaxin Receptor 1 (RXFP1, LGR7)
Formulation:	State: Serum State: Lyophilized Serum
Reconstitution Method:	Restore in aqua bidest to initial volume
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	relaxin/insulin like family peptide receptor 2
Database Link:	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:

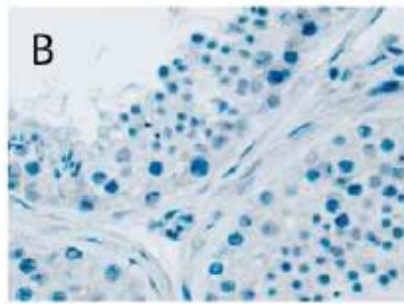
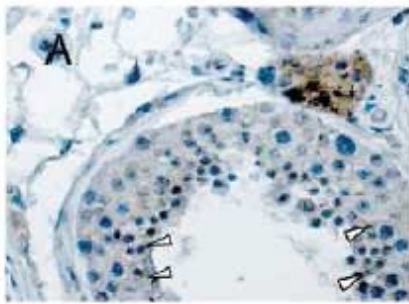
G-protein coupled receptor 106, GPR106, GREAT, LGR8

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Neuroactive ligand-receptor interaction

Product images:

Immunohistochemistry of RXFP2 staining in Paraffin Section of Human testis. The section was incubated with AP23449SU (1/4000) overnight and detected using ABC staining Kit. DAB was used as the chromogen. The section was counter-stained with haemalaun. A: AP23449SU recognizes interstitial Leydig cells and germ cells (arrow heads). B: Preimmune serum at the same dilution. Scale bar = 50 μ m Anand-Ivell R et al. (2006) Biol Reprod 74:945-953.