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Product datasheet for AP01338PU-M

GPR91 (SUCNR1) 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, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 102-154 of Human GPR91.
Specificity:	This antibody detects endogenous levels of GPR91 protein surrounding Ala135.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure 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:	~38 kDa
Gene Name:	succinate receptor 1
Database Link:	Entrez Gene 84112 MouseEntrez Gene 408199 RatEntrez Gene 56670 Human Q9BXA5

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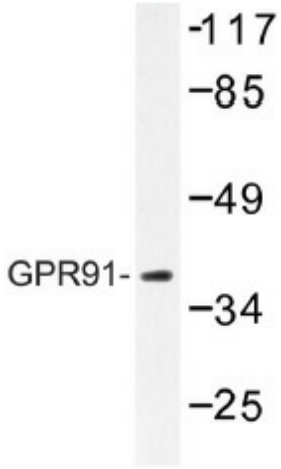
Background: GPR91 (formerly known as P2U2) is a G protein-coupled, dicarboxylic acid succinate receptor. It has a high level of expression in the kidney, predominantly in the proximal tubules, and localizes to the plasma membrane. It has also been found at low levels in the liver and the spleen. GPR91 functions as a citric acid cycle intermediate succinate receptor. Two signaling pathways result from GPR91 activation, the pertussis-toxin-sensitive Gi/Go pathway and the pertussis-toxin-insensitive Gq pathway. Four amino acid residues are necessary for GPR91 activation by succinate: Arg 99, His 103, Arg 252 and Arg 281. GPR91 plays an important role in the succinate-induced hypertensive effect and may be involved in renovascular hypertension, a disease linked to diabetes, renal failure and atherosclerosis.

Synonyms: G-protein coupled receptor 91, P2Y purinoceptor 1-like

Protein Families: Druggable Genome, GPCR, Transmembrane

Product images:



Western blot analysis of GPR91 antibody Cat.-No. [AP01338PU-N] in extracts from HUVEC/MCF-7 cells.