

## Product datasheet for **TA328866**

### KISS1 receptor (KISS1R) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)GSHWHPRSYAAYALK, corresponding to amino acid residues 292-305 of human KISS1R. 3rd extracellular loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% Na <sub>3</sub> N.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	KISS1 receptor
Database Link:	<a href="#">NP_115940</a> <a href="#">Entrez Gene 78976 Rat</a> <a href="#">Entrez Gene 84634 Human</a> <a href="#">Q969F8</a>



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**Background:**

The Kisspeptin receptor (KISS1R, also named GPCR54) is a member of the G-protein coupled receptor superfamily. The KISS1R natural ligands are peptides called kisspeptins which are encoded by the Kiss1 gene. The Kiss1 gene was originally discovered by Hershey's scientists who named it after their famous chocolate, the "Kiss". The kisspeptins, acting through KISS1R, were found to be potent inhibitors of metastasis in a variety of cancer cell types including thyroid and pancreatic cancer cells. KISS1R and kisspeptins are involved in the direct regulation of the reproductive neuroendocrine axis. KISS1R is widely distributed throughout the brain, where it is most highly expressed in the hypothalamic and amygdaloid nuclei. High expression was also found within the pancreas and placenta. Lower-level expression was found in a variety of other peripheral tissues including peripheral blood leukocytes, kidney, lung, testes, spleen, thymus, adrenal glands and lymph nodes.

**Synonyms:**

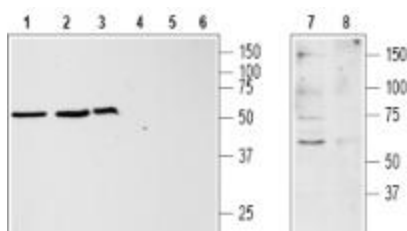
AXOR12; CPPB1; GPR54; HH8; HOT7T175; KISS-1R

**Protein Families:**

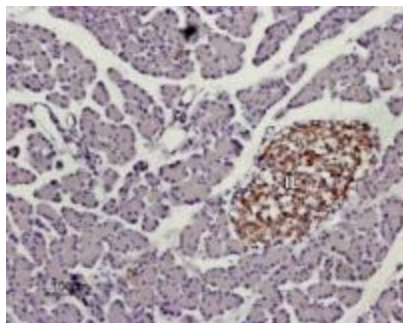
Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

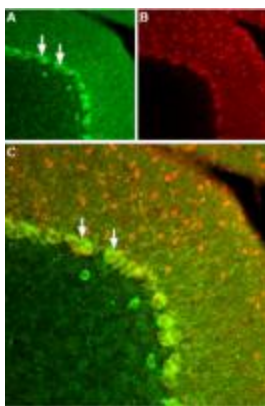
Neuroactive ligand-receptor interaction

**Product images:**


Western blot analysis of jurkat (lanes 1 and 4), HL-60 (lanes 2 and 5), MCF-7 (lanes 3 and 6) and rat brain (lanes 7 and 8) lysates: 1, 2, 3, 7. Anti-Kisspeptin Receptor (extracellular) antibody, (1:500). 4, 5, 6, 8. Anti-Kisspeptin Receptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of KISS1R in rat pancreas. Immunohistochemical staining of paraffin embedded section of rat pancreas using Anti-Kisspeptin Receptor (extracellular) antibody, (1:100). KISS1R staining (brown) appears in Isles of Langerhans (IL). Hematoxylin is used as the counterstain.



Expression of KISS1R in rat cerebellum  
Immunohistochemical staining of frozen rat cerebellum section using Anti-Kisspeptin Receptor (extracellular) antibody, (1:100). A. KISS1R (green) was expressed particularly in Purkinje cell bodies (arrows). B. Staining with mouse anti parvalbumin (red) detected Purkinje cells and interneurons in the molecular layer. C. Merge of the two images demonstrates that the staining was restricted to Purkinje cells.