10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# QRFPR Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18107c

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q96P65 |
| **Other Accession** | P83858, P83861, NP_937822.2 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB38341 |
| **Calculated MW** | 49488 |
| **Antigen Region** | 172-198 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 84109 |
| **Other Names** | Pyroglutamylated RFamide peptide receptor, AQ27, G-protein coupled receptor 103, Orexigenic neuropeptide QRFP receptor, SP9155, QRFPR, GPR103 |
| **Target/Specificity** | This QRFPR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-198 amino acids from the Central region of human QRFPR. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | QRFPR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | QRFPR |
| **Synonyms** | GPR103 |

| | |
|---|---|
| **Function** | Receptor for the orexigenic neuropeptide QRFP. The activity of this receptor is mediated by G proteins that modulate adenylate cyclase activity and intracellular calcium levels. |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. |
| **Tissue Location** | Expressed widely in the brain with high levels in the hypothalamus, trigeminal ganglia and vestibular neurons, and moderate levels in the amygdala, cortex, pituitary, hippocampus, thalamus, caudate nucleus and medulla oblongata. In peripheral tissues, expressed at high levels in the retina and at moderate levels in the heart, kidney, testis and thyroid. |

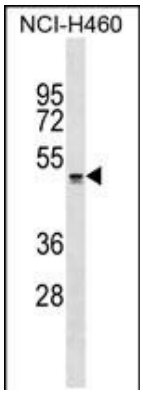
## Background

G protein-coupled receptors (GPCRs, or GPRs) contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins.

## References


Mulumba, M., et al. Mol. Endocrinol. 24(8):1615-1625(2010)
Dowal, L., et al. J. Biol. Chem. 281(33):23999-24014(2006)
Takayasu, S., et al. Proc. Natl. Acad. Sci. U.S.A. 103(19):7438-7443(2006)
Fukusumi, S., et al. J. Biol. Chem. 278(47):46387-46395(2003)
Jiang, Y., et al. J. Biol. Chem. 278(30):27652-27657(2003)


## Images




QRFPR Antibody (Center) (Cat. #AP18107c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the QRFPR antibody detected the QRFPR protein (arrow).