

Product datasheet for **TA350778S**

CGK2 (PRKG2) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | WB: 200-1000 WB positive control: Mouse brain and lung tissue IHC: 25-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide of human PRKG2 |
| Formulation: | pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol |
| Purification: | Antigen affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 87 kDa |
| Gene Name: | protein kinase, cGMP-dependent, type II |
| Database Link: | NP_006250 Entrez Gene 19092 MouseEntrez Gene 25523 RatEntrez Gene 5593 Human Q13237 |



[View online »](#)

Background:

cGKII (cGMP-dependent protein kinase type II) is a major receptor of intracellular cGMP and mediates a plethora of physiological responses. cGKII contains a conserved leucine zipper motif at the amino-terminus. It is expressed in small intestine, colon, prostate, and human brain tissues, and the cGKII gene maps to chromosome 4q13.1-q21.1. cGKII has been shown to regulate the ion transport system in the intestine. Myristoylation of the penultimate glycine in cGKII appears to be essential for directing cGKII to the membrane, since cGKII is devoid of any hydrophobic transmembrane domains. The translocation of cGKII from the cytosol to the membrane allows it to function properly in regulating intestinal ion transport.

Synonyms:

cGK2; cGKII; PRKGR2

Protein Families:

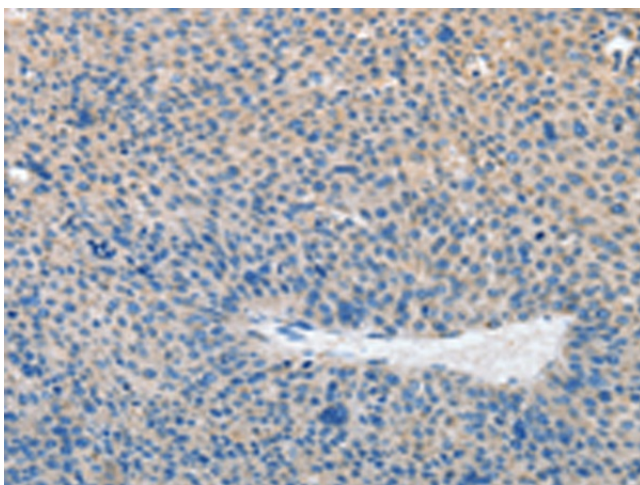
Druggable Genome, Protein Kinase

Protein Pathways:

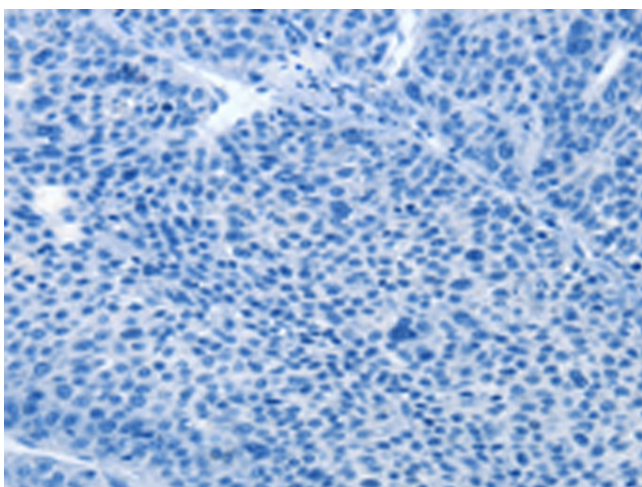
Gap junction, Long-term depression, Olfactory transduction

Product images:

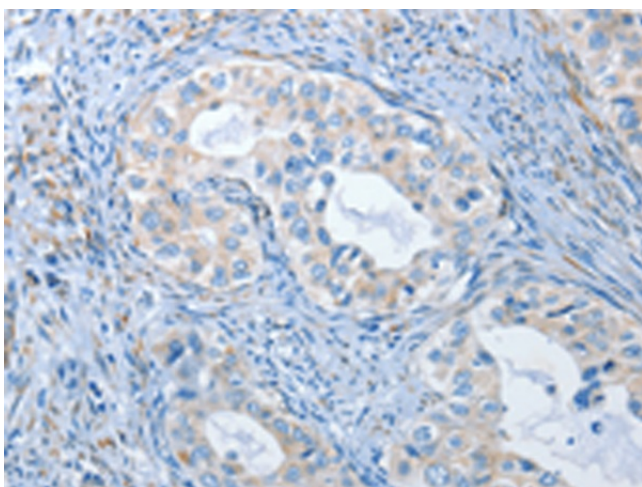
Gel: 8%SDS-PAGE
Lysate: 50 µg
Lane 1-2: Mouse brain tissue
Mouse lung tissue
Primary antibody: [TA350778] (PRKG2 Antibody)
at dilution 1/160
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 30 seconds



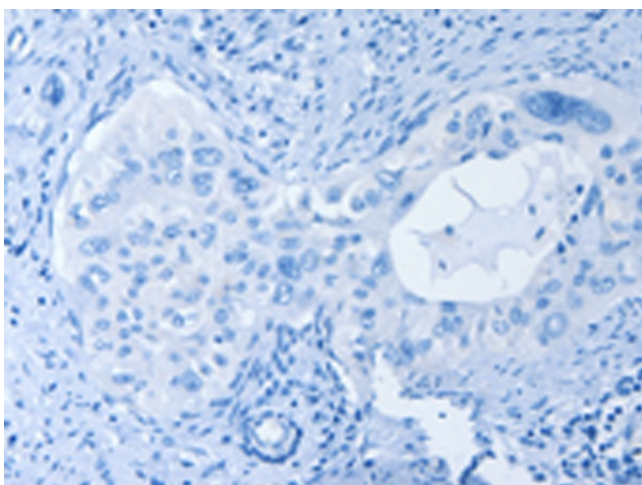
Immunohistochemistry of paraffin-embedded
Human liver cancer tissue using [TA350778]
(PRKG2 Antibody) at dilution 1/20 (Original
magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA350778] (PRKG2 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using [TA350778] (PRKG2 Antibody) at dilution 1/20 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using [TA350778] (PRKG2 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: $\times 200$)