

## Product datasheet for **TA321704**

### GRPR Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human hepatocellular carcinoma tissue and A549 cells IHC: 50-200 Positive control: Human cervical cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 350-365 amino acids of Human gastrin-releasing peptide receptor
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
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:	43 kDa
Gene Name:	gastrin releasing peptide receptor
Database Link:	<a href="#">NP_005305</a> <a href="#">Entrez Gene 14829 Mouse</a> <a href="#">Entrez Gene 24938 Rat</a> <a href="#">Entrez Gene 2925 Human</a> <a href="#">P30550</a>



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**Background:**

Gastrin-releasing peptide (GRP) regulates numerous functions of the gastrointestinal and central nervous systems; including release of gastrointestinal hormones; smooth muscle cell contraction; and epithelial cell proliferation and is a potent mitogen for neoplastic tissues. The effects of GRP are mediated through the gastrin-releasing peptide receptor. This receptor is a glycosylated; 7-transmembrane G-protein coupled receptor that activates the phospholipase C signaling pathway. The receptor is aberrantly expressed in numerous cancers such as those of the lung; colon; and prostate. An individual with autism and multiple exostoses was found to have a balanced translocation between chromosome 8 and a chromosome X breakpoint located within the gastrin-releasing peptide receptor gene.

**Synonyms:**

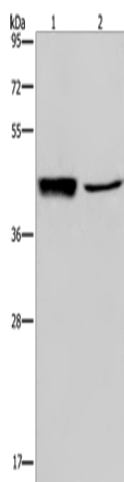
BB2; BB2R

**Protein Families:**

Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Calcium signaling pathway, Neuroactive ligand-receptor interaction

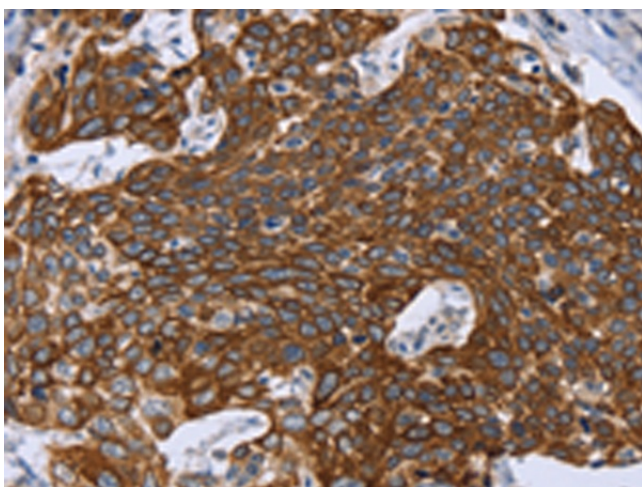
**Product images:**

Gel: 8%SDS-PAGE

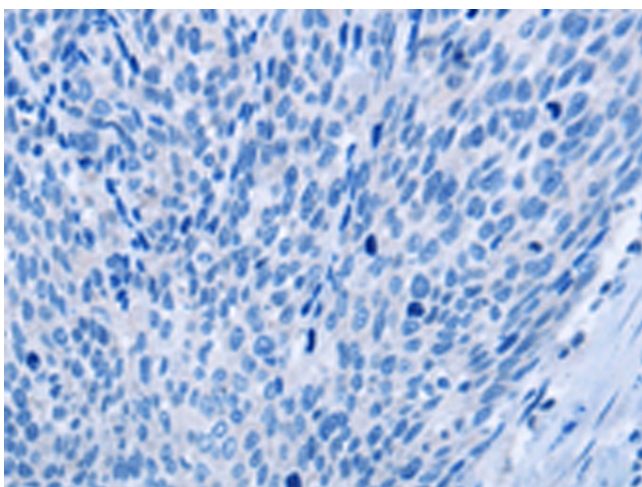
Lysate: 40 µg

Lane 1-2: Human hepatocellular carcinoma tissue  
A549 cellsPrimary antibody: TA321704 (GRPR Antibody) at  
dilution 1/300Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

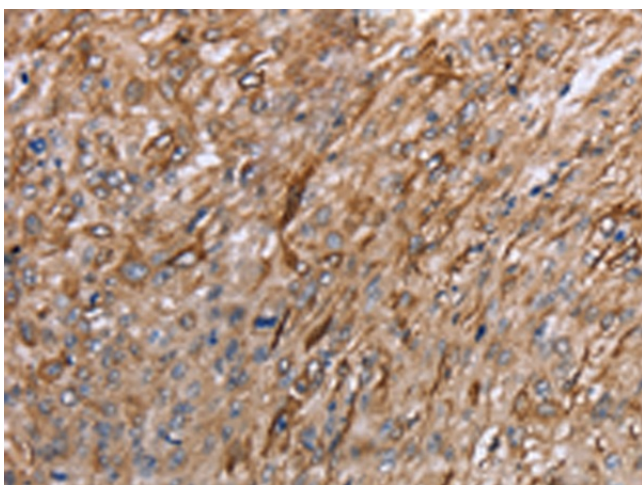
Exposure time: 5 minutes



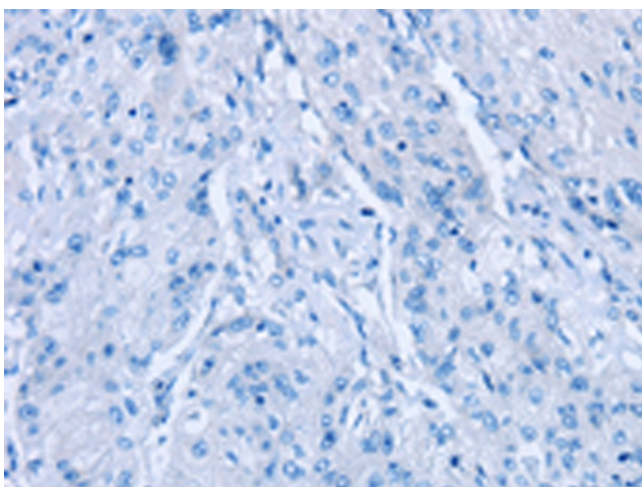
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321704 (GRPR Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321704 (GRPR Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA321704 (GRPR Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA321704 (GRPR Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )