



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human GRP Antibody

| | | | |
|---------------------------------|-------------------------------|--------------------------|--------------------------------|
| Catalog No: 130-10093 | Isotype: Rabbit IgG | Species: Human | Accession No: P07492 |
|---------------------------------|-------------------------------|--------------------------|--------------------------------|

Description

This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. Its pre-proprotein, following cleavage of a signal peptide, is further processed to produce either the 27 aa gastrin-releasing peptide or the 10 aa neuromedin C. These smaller peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants encoding different isoforms.

Applications

Summary of antibody applications and working conditions

| Options / Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|----------------------------|-----|----|----------------|--|
| ELISA | * | | | 1 : 80,000 |
| Western Blotting | | | * | |
| Enzyme Immunoassay(EIA) | | | * | |
| Immunohistology - paraffin | | | * | |
| Immunohistology - resin | | | * | |
| Immunoprecipitation | | | * | |
| Flow Cytometry | | | * | |
| Neutralization | | | * | |

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was synthetic peptide derived from human GRP. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by Protein A/G affinity chromatography.

Specificity

The antibody binds to human GRP, and no cross reactivity with unrelated antigens in ELISA. Cross reactivity with mouse or rat GRP was not tested.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Related products

RayBio® Gastrin Releasing Peptide (GRP) EIA Kit for Serum, Plasma, Culture Supernatant and Cell Lysates (cat# EIA-GRP-1)

Reference

1. Spindel, E.R.; et al. (1986) "Two prohormones for gastrin-releasing peptide are encoded by two mRNAs differing by 19 nucleotides." Proc. Natl. Acad. Sci. U.S.A. 83:19-23
2. Lebacqz-Verheyden A.-M.; et al. (1988) "Posttranslational processing of endogenous and of baculovirus-expressed human gastrin-releasing peptide precursor." Mol. Cell. Biol. 8:3129-3135

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