

For Research Use Only

# Recombinant Human GP2 protein (mFc Tag)



Catalog Number: Eg2447

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
mFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Human GP2 protein Val29-Asn512 (Accession# P55259-1) with a mouse IgG Fc tag at the C-terminus.

**GeneID:**

2813

**Accession:**

P55259-1

**Predicted Molecular Mass:**

80.4 kDa

**SDS-PAGE:**

80-120 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Pancreatic secretory granule membrane major glycoprotein (GP2) is the most abundant membrane component of zymogen granules secreted by pancreatic acinar cells. GP2 associates with the plasma membrane via glycosylphosphatidylinositol (GPI) linkage. It is released from the membrane of mature zymogen granules by an enzymatic mechanism. GP2 plays a role in defense against adhesive and invasive commensal bacteria during intestinal inflammation. GP2 is preferentially expressed in acinar cell carcinomas of the pancreas but the glycoprotein can rarely also be expressed in a variety of other tumor entities.

## References

1. G A Scheele, et al. (1994) *Pancreas*. 9(2):139-49.
2. S Fukuoka, et al. (1991) *Proc Natl Acad Sci U S A*. 88(7):2898-902.
3. Yosuke Kurashima, et al. (2021) *Nat Commun*. 12(1):1067.
4. Ria Uhlig, et al. (2022) *Pathol Res Pract*. 238:154123.

## Synonyms

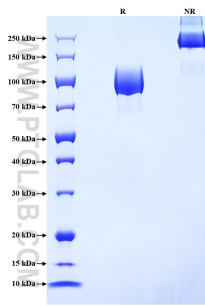
Pancreatic zymogen granule membrane protein GP-2, ZAP75

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Human GP2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.