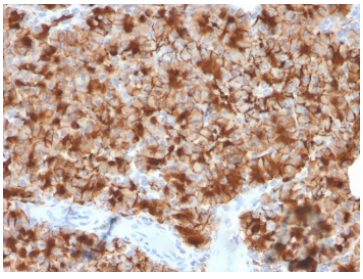
# Glycoprotein 2 Antibody / GP2 / ZAP75 [clone GP2/3416] (V7816)

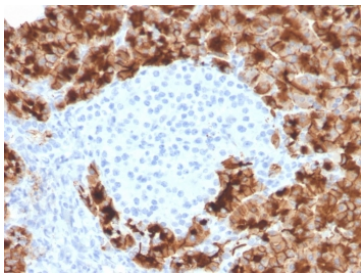
| Catalog No. | Formulation | Size |
|---|---|---|
| V7816-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7816-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7816SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2c, kappa |
| **Clone Name** | GP2/3416 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P55259 |
| **Localization** | Cytoplasmic, membranous, secreted |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry : 1-2ug/ml |
| **Limitations** | This Glycoprotein 2 antibody is available for research use only. |



IHC testing of FFPE human pancreas with Glycoprotein 2 antibody (clone GP2/3416). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



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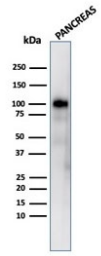
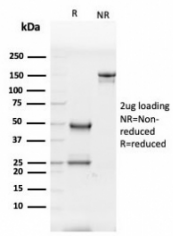



Western blot testing of human pancreas lysate with Glycoprotein 2 antibody (clone GP2/3416).




SDS-PAGE analysis of purified, BSA-free Glycoprotein 2 antibody (clone GP2/3416) as confirmation of integrity and purity.

## Description

GP2 (glycoprotein 2), also known as ZAP75, is a 537 amino acid secreted protein. It is an integral membrane protein that is secreted from intracellular zymogen granules and associates with the plasma membrane via glycosylphosphatidylinositol (GPI) linkage. GP2 is cleaved and then released into the pancreatic duct along with exocrine secretions. GP2 binds pathogens such as enterobacteria, thereby playing an important role in the innate immune response. The C-terminus of this protein is related to the C-terminus of the protein encoded by the neighboring gene, uromodulin (UMOD). GP2 is also expressed on the apical plasma membrane of specialized microfold (M) cells among enterocytes and serves as a transcytotic receptor for mucosal antigens. M cells are considered a promising target for oral vaccination against various infectious diseases.

## Application Notes

Optimal dilution of the Glycoprotein 2 antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amino acids 35-179) was used as the immunogen for this Glycoprotein 2 antibody.

## Storage

Store the Glycoprotein 2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).