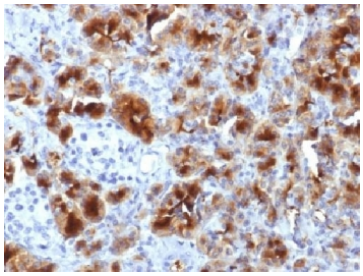
GP2 Antibody / Glycoprotein 2 / ZAP75 [clone GP2/1712] (V3333)

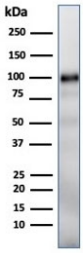
Catalog No.	Formulation	Size
V3333-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3333-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3333SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

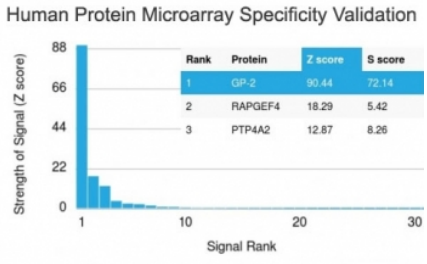
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, lambda
Clone Name	GP2/1712
Purity	Protein G affinity chromatography
UniProt	P55259
Localization	Cytoplasmic, membranous, secreted
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This GP2 antibody is available for research use only.



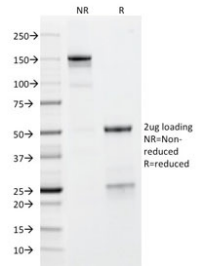
IHC testing of FFPE human pancreas with GP2 antibody (clone GP2/1712). HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min.



Western blot testing of human pancreas lysate with GP2 antibody (clone GP2/1712).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using GP2 antibody (clone GP2/1712). These results demonstrate the foremost specificity of the GP2/1712 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free GP2 antibody (clone GP2/1712) 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 GP2 antibody should be determined by the researcher.

Immunogen

A partial human recombinant protein corresponding to amino acids 35-179 was used as the immunogen for the GP2 antibody.

Storage

Store the GP2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).