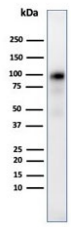
Glycoprotein 2 Antibody / GP2 / ZAP75 [clone GP2/3510] (V4408)

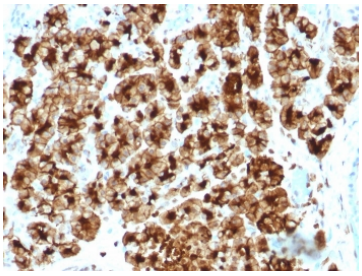
Catalog No.	Formulation	Size
V4408-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4408-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4408SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

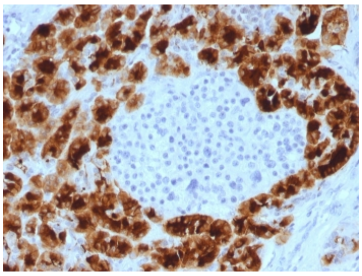
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	GP2/3510
Purity	Protein A/G affinity
UniProt	P55259
Localization	Cell surface, Secreted, Cytoplasmic
Applications	ELISA : 2-4mg/ml for coating (order BSA-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This Glycoprotein 2 antibody is available for research use only.



Western blot testing of human pancreas tissue lysate with Glycoprotein 2 antibody (clone GP2/3510). Predicted molecular weight ~59 kDa but may be observed at higher molecular weights due to glycosylation.



IHC staining of FFPE human pancreas tissue with Glycoprotein 2 antibody (clone GP2/3510). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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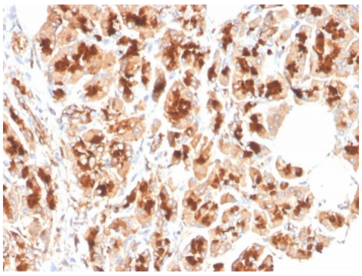

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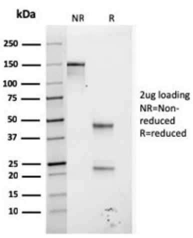

SDS-PAGE analysis of purified, BSA-free Glycoprotein 2 antibody (clone GP2/3510) as confirmation of integrity and purity.

Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using Glycoprotein 2 antibody (clone GP2/3510) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.

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 fragment of human protein (within amino acids 35-179) was used as the immunogen for the Glycoprotein 2 antibody.

Storage

Aliquot the Glycoprotein 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.