

Mouse GP2 (Glycoprotein 2)/ZAP75 Monoclonal Antibody | anti-GP2 antibody

GP2 (Glycoprotein 2)/ZAP75

CATALOG # AAA214652	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

GP2 (Glycoprotein 2)/ZAP75; Monoclonal Antibody; Glycoprotein 2 (zymogen granule membrane); GP2; Pancreatic zymogen granule membrane associated protein GP2; Pancreatic zymogen granule membrane protein GP-2; ZAP75; anti-GP2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	GP2/1803
Specificity	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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	537
Applicable Applications for anti-GP2 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment of human GP2 protein (around aa 35-179)
Cellular Localization	Cell Surface and Secreted
Hu-chromosome Location	16p12
Positive Control	PANC-1 Cells. Pancreas

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using GP2 Mouse Monoclonal Antibody (GP2/1803) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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™ 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.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Pancreas stained with GP2 Mouse Monoclonal Antibody (GP2/1803).



SDS-PAGE

SDS-PAGE Analysis Purified GP2 Mouse Monoclonal Antibody (GP2/1803). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	Fukuoka, S., et al. 1991. A single gene encodes membrane-bound and free forms of GP-2, the major glycoprotein in pancreatic secretory (zymogen) granule membranes. Proc. Natl. Acad. Sci. USA 88: 2898-2902.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119220569
NCBI GeneID	2813
NCBI Accession #	NP_001007241.2
NCBI GenBank Nucleotide #	NM_001007240.2
UniProt Accession #	P55259; Q13338; Q9UIF1; A6NFM9; A6NJA8
Molecular Weight	59kDa
NCBI Official Full Name	pancreatic secretory granule membrane major glycoprotein GP2 isoform 1 preproprotein
NCBI Official Synonym Full Names	glycoprotein 2
NCBI Official Symbol	GP2
NCBI Official Synonym Symbols	ZAP75
NCBI Protein Information	pancreatic secretory granule membrane major glycoprotein GP2
UniProt Protein Name	Pancreatic secretory granule membrane major glycoprotein GP2
UniProt Gene Name	GP2

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