

GP2
Mouse Monoclonal Antibody (Mab)
Catalog # APA157**Specification**

GP2 - Product Information

Application	IHC
Primary Accession	P55259
Host	Mouse
Clonality	Monoclonal
Calculated MW	59480 Da

GP2 - Additional Information

Gene ID	2813
Gene Name	GP2 (HGNC:4441)

Other Names

Pancreatic secretory granule membrane major glycoprotein GP2, Pancreatic zymogen granule membrane protein GP-2, ZAP75, GP2 (HGNC:4441)

Dilution

IHC~~1:100~500

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GP2 is for research use only and not for use in diagnostic or therapeutic procedures.

GP2 - Protein Information

Name GP2 ([HGNC:4441](#))

Function

Functions as an intestinal M-cells transcytotic receptor specific of type-I-piliated bacteria that participate in the mucosal immune response toward these bacteria. At the apical membrane of M- cells binds fimH, a protein of the bacteria type I pilus tip. Internalizes bound bacteria, like E.coli and S.typhimurium, from the lumen of the intestine and delivers them, through M-cells, to the underlying organized lymphoid follicles where they are captured by

Cellular Location

antigen-presenting dendritic cells to elicit a mucosal immune response.

Zymogen granule membrane

{ECO:0000250|UniProtKB:P19218};

Lipid-anchor, GPI-anchor

{ECO:0000250|UniProtKB:P19218}.

Secreted Cell membrane

{ECO:0000250|UniProtKB:P19218};

Lipid-anchor, GPI-anchor

{ECO:0000250|UniProtKB:P19218}. Apical cell membrane

{ECO:0000250|UniProtKB:Q9D733};

Lipid-anchor, GPI-anchor

{ECO:0000250|UniProtKB:P19218}.

Membrane raft

{ECO:0000250|UniProtKB:P19218};

Lipid-anchor, GPI-anchor

{ECO:0000250|UniProtKB:P19218}.

Endosome

{ECO:0000250|UniProtKB:Q9D733}.

Note=Secreted, after cleavage, in the pancreatic juice.

Tissue Location

Expressed in pancreas (at protein level) (PubMed:8666297, PubMed:10760606).

Specifically expressed by M (microfold) cells which are atypical epithelial cells of the intestine (at protein level) (PubMed:19907495).

GP2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GP2 - Images