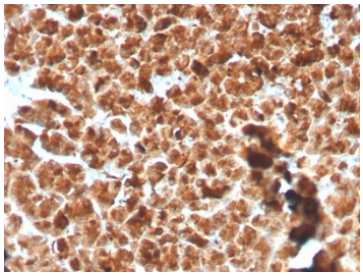
Recombinant GP2 Antibody / Glycoprotein 2 / ZAP75 [clone GP2/3134R] (V7415)

Catalog No.	Formulation	Size
V7415-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7415-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7415SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7415IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

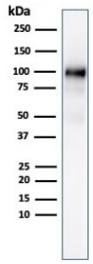
Recombinant RABBIT MONOCLONAL

Bulk quote request

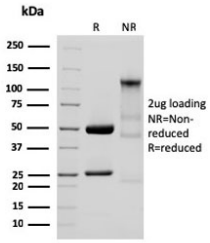
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	GP2/3134R
Purity	Protein A affinity chromatography
UniProt	P55259
Localization	Cytoplasmic, membranous, secreted
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant GP2 antibody is available for research use only.



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



Western blot testing of human pancreas lysate with recombinant GP2 antibody (clone GP2/3134R).



SDS-PAGE analysis of purified, BSA-free recombinant Glycoprotein 2 antibody (clone GP2/3134R) 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 recombinant GP2 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

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

Storage

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