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32-3912: GP2 Recombinant Protein

Alternative Name : Glycoprotein 2 (zymogen granule membrane),Pancreatic zymogen granule membrane protein GP-2,ZAP75,DKFZp779K0533.

Description

Source : Sf9 insect cells. GP2 is a cDNA coding for the free form of the human pancreatic secretory granule membrane major glycoprotein / GP2 having a molecular mass of 54,909 Dalton (protein component excluding glycosylation; observed molecular weight approx. 68 kDa) pH 5.4. GP2 protein is fused to a deca-histidine purification tag. Crohn's Disease (CD), which is very common in Caucasians, is an inflammatory bowel diseases (IBD). Mucosal inflammation in CD seems to arise when dysregulation of the immune system breaks the balance between tolerance to commensal microbiota or food-derived antigens and immunity to pathogens. The autoimmune mechanisms takes part in the development of CD, and exocrine pancreas autoantibodies (PAB) are disease-specific in CD patients. It was established not too long ago that glycoprotein 2 (GP2) is the major autoantigenic mark recognized by CD-specific PAB. Furthermore to IgG and IgM PAB isotypes, IgA pancreatic autoantibodies were also identified in CD patients. GP2 is an extremely glycosylated 78 kDa protein with N-linked carbohydrates. It is responsible for up to 40% of all zymogen granule (ZG) membrane proteins in pancreatic acinar cells and is linked to the ZG membrane via a glycosyl phosphoinositol (GPI) anchor.

Product Info

Amount :	10 µg
Purification :	Greater than 80% as determined by SDS-PAGE.
Content :	GP2 solution is supplied in 16mM HEPES buffer pH-7.5, 80mM NaCl and 20% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.