
Recombinant Human REG3G / PAP1B Protein (His tag)**Cat.NO.: TP07258**

3th Edition

Synonyms:LPPM429;PAP-1B;PAP1B;PAPIB;REG-III;REGIII;UNQ429

Description:Regenerating gene (Reg), first isolated from a regenerating islet cDNA library, encodes a secretory protein with a growth stimulating effect on pancreatic beta cells. Reg and Reg-related genes which were expressed in various organs have been revealed to constitute a multigene family, the Reg family, which consists of four subtypes (types I, II, III, IV) based on the primary structures of the encoded proteins of the genes, which are associated with tissue repair and have been directly implicated in pancreatic beta-cell regeneration. Reg proteins are expressed in various organs and are involved in cancers and neurodegenerative diseases. They display a typical C-type lectin-like domain but possess additional highly conserved amino acids. Regenerating islet-derived 3 gamma (REG3G), also known as pancreatitis-associated protein 1B (PAP1B), is a member of the secreted Reg superfamily and contains one typical C-type lectin domain. REG3G is expressed weakly in pancreas, strongly in intestinal tract, but not in hyperplastic islets REG3G might be a stress protein involved in the control of bacterial proliferation. It was indicated that REG3G specifically targets Gram-positive bacteria because it binds to their surface peptidoglycan layer, and serves as one of several antimicrobial peptides produced by paneth cells via stimulation of toll-like receptors (TLRs) by pathogen-associated molecular patterns (PAMPs).

Form:PBS**Molecular Weight:**18 kDa**Sequences:**Met 1-Asp 175**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.