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Datasheet

FPGT mouse monoclonal antibody (hybridoma)

Catalog Number: H00008790-M

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full-length recombinant FPGT.

Immunogen: FPGT (NP_003829.2, 1 a.a. ~ 594 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
MAAARDPPEVSLREATQRKLRRFSELRGKLVARGEF
WDIVAITAADEKQELAYNQQLSEKLKRKELPLGVQYHV
FVDPAGAKIGNGGSTLCALQCLEKLYGDKWNSFTILLI
HSGGYSQRLPNASALGKIFTALPLGNPIYQMLELKLAM
YIDFPLNMNPGILVTCADDIELYSIGEFEFIRFDKPGFTA
LAHPSSLTIGTTHGVFVLDPFDDLKHRDLEYRSCHRFL
HKPSIEKMYQFNAVCRPGNFCQQDFAGGDIADLKLDS
DYVYTDSLFYMDHKSAKMLLAFYEKIGTLSCEIDAYGD
FLQALGPGATVEYTRNTSNVIKEESELVEMRQRIFHLL
KGTSLNVVVLNNSKFYHIGTTEEYLFYFTSDNSLKSEL
GLQSITFSIFPDIPECSGKTSCIIQSILDSRCSVAPGSVV
EYSRLGPDVSVGENCIISGSYILTKAALPAHSFVCSLSL
KMNRCLKYATMAFGVQDNLKKSVKTLSDIKLLQFFGV
CFLSCLDVWNLKVTEELFSGNKTCLSLWTARIFPVCSS
LSDSVITSLKMLNAVKNKSAFSLNSYKLLSIEEMLIYKD
VEDMITYREQIFLEISLKSSLM

Host: Mouse

Reactivity: Human

Applications: ELISA, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Entrez GeneID: 8790

Gene Symbol: FPGT

Gene Alias: GFPP

Gene Summary: L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. This pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransferase to form GDP-beta-L-fucose. [provided by RefSeq]