

Recombinant Protein Technical Manual Recombinant Mouse BAMBI Protein (Fc Tag)

RPES1410

Product Data:

Size: 20µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q9D0L6

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Molecular Mass:	41 kDa	
AP Molecular Mass:	45 kDa	
Tag:	C-Fc	
Bio-activity:		
Purity:	> 90 % as determined by SDS-PAGE	
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method.	
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation:	Lyophilized from sterile PBS, pH 7.4	
Reconstitution:	Please refer to the printed manual for detailed information.	
Application:		
Synonyms:	2610003H06Rik	

Sequence: Met1-Ala152

Background:

BMP and activin membrane-bound inhibitor (BAMBI) is a transmembrane glycoprotein that is a pseudoreceptor of type 1 receptors. BAMBI structurally lacks intracellular serine/ threonine kinase domain but with an extracellular domain and a short cytoplasmic region that share sequence similarities with type 1 receptors, whose members have functions in signal transduction in various developing and pathological processes. BAMBI competes with the type 1 receptor, a receptor of the transforming growth factor-beta (TGF-beta), through functioning as negative regulators of TGF-beta by limiting the signaling range of the TGF-beta family during early embryogenesis. The expression of BAMBI can be induced by accumulated beta-catenin and BMP. The expression level of BAMBI was found aberrantly elevated in most colorectal and hepatocellular carcinomas relative to the corresponding non-cancerous tissues. It suggestes that beta-catenin and TGF-beta interfere growth arrest by inducing the expression of BAMBI, and this may contribute to colorectal and hepatocellular tumorigenesis.