Mouse BAMBI / NMA Protein (His Tag)

Catalog Number: 50895-M08H



General Information

Gene Name Synonym:

2610003H06Rik

Protein Construction:

A DNA sequence encoding the extracellular domain of mouse BAMBI (Q9D0L6) (Met 1-Ala 152) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt $\,$ at -70 $\,$ $^{\circ}$ C

Predicted N terminal: Glu 27

Molecular Mass:

The secreted recombinant mouse BAMBI comprises 137 amino acids and has a calculated molecular mass of 15.4 kDa. As a result of glycosylation, the apparent molecular mass of rmBAMBI is approximately 20-25 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

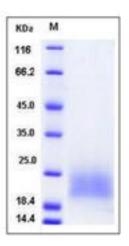
Store it under sterile conditions at -20 $^{\circ}$ C to -80 $^{\circ}$ C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 TGFbeta 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.

References

1.Sekiya T, et al. (2003) Identification of BMP and Activin Membrane-bound Inhibitor (BAMBI), an Inhibitor of Transforming Growth Factor-Signaling, as a Target of the -Catenin Pathway in Colorectal Tumor Cells. The Journal of Biological Chemistry. 279:6840-6. 2.Shi YG, et al. (2003) Mechanisms of TGF- Signaling from Cell Membrane to the Nucleus. Cell. 113(6): 685-700. 3.Wanninger J, et al. (2011) Adiponectin induces the transforming growth factor decoy receptor BAMBI in human hepatocytes. FEBS Lett. 585(9):1338-44.

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