Rabbit Anti-Human BMP and Activin Membrane-Bound Inhibitor-Like Monoclonal Antibody

Cat. No. CAB11480RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit monoclonal antibody to human BMP and activin membrane-bound inhibitor-like.
Species	Human
Source	Rabbit
Antigen Description	BMP and activin membrane-bound inhibitor homolog, also known as BAMBI and NMA, is a single-pass type I membrane protein which belongs to the BAMBI family. Members of the transforming growth factor-beta (TGF-beta) superfamily, including TGF-beta, bone morphogenetic proteins (BMPs), activins and nodals, are vital for regulating growth and differentiation. These growth factors transduce their signals through pairs of transmembrane type I and type II receptor kinases. BAMBI is a transmembrane glycoprotein related to the transforming growth factor-beta (TGF-beta)-family type I receptors and functions as a negative regulator of TGF-beta signaling during development. BAMBI is co-expressed with the ventralizing morphogen BMP4 during Xenopus embryogenesis and that it requires BMP signalling for its expression. BAMBI is induced by BMP signaling through the evolutionary conserved BMP-responsive elements in its promoter. Wnt/beta-catenin signaling activates transcription of BAMBI and that BAMBI expression is aberrantly elevated in most colorectal carcinomas. BAMBI stably associates with TGF-beta-family receptors and inhibits BMP and activin as well as TGF-beta signalling. BAMBI negatively regulates TGF-beta-family signalling by a regulatory mechanism involving the

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	interaction of signalling receptors with a pseudoreceptor.
Specificity	Human BAMBI / NMA. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Human BAMBI / NMA Protein
Isotype	Rabbit IgG
Clone	212
Applications	Western Blot; ELISA
Dilution	Western blot : This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human BAMBI in WB. Using a DAB detection system, the detection limit for Human BAMBI is approximately 10 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended.Direct ELISA : This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human BAMBI. The detection limit for Human BAMBI is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human BAMBI / NMA.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be

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	disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	BAMBI BMP and activin membrane-bound inhibitor homolog (Xenopus laevis) [Homo sapiens]
Official Symbol	BAMBI
Synonyms	BAMBI; BMP and activin membrane-bound inhibitor homolog (Xenopus laevis); BMP and activin membrane-bound inhibitor homolog; NMA; non-metastatic gene A protein; putative transmembrane protein NMA;
Gene ID	25805
mRNA Refseq	NM_012342
Protein Refseq	NP_036474
MIM	604444
UniProt ID	Q13145
Chromosome Location	10p12.3-p11.2
Pathway	BMP receptor signaling, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta receptor signaling, organism-specific biosystem;
Function	frizzled binding; type II transforming growth factor beta receptor binding;

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