

BAMBI Antibody

Catalog # ASC11837

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q13145
Other Accession	NP_036474 , 6912534
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	29108
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	BAMBI antibody can be used for detection of BAMBI by Western blot at 1 - 2 μ g/ml. Antibody can also be used for Immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	25805
Other Names	BMP and activin membrane-bound inhibitor homolog, Non-metastatic gene A protein, Putative transmembrane protein NMA, BAMBI, NMA
Target/Specificity	BAMBI; BAMBI antibody is human, mouse and rat reactive.
Reconstitution & Storage	BAMBI antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	BAMBI Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BAMBI
Synonyms	NMA
Function	Negatively regulates TGF-beta signaling.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	High expression in kidney medulla, placenta and spleen; low in kidney cortex, liver, prostate and gut. Not expressed in normal skin, expression is high in melanocytes and in 3 out of 11 melanoma metastases tested

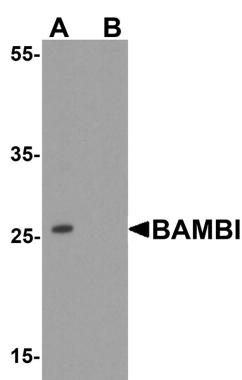
Background

BAMBI (BMP and activin membrane-bound inhibitor homolog, NMA) is a membrane spanning glycoprotein that acts as a negative regulator of TGF-beta signaling during development (1). BAMBI transcription regulation is under the influence of beta-catenin, BMP, smad3 and smad4 (2,3). BAMBI expression can increase in colorectal and hepatocellular carcinomas relative to non-cancerous tissues (4). BAMBI is expressed at high levels during odontogenesis. BAMBI is coexpressed with Bmp-4 during early *Xenopus* embryogenesis and can be detected in poorly metastatic human melanoma cell lines (5).

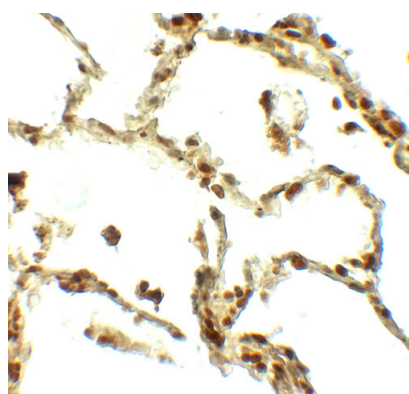
References

- Onichtchouk D, Chen YG, Dosch R, et al. Silencing of TGF-beta signalling by the pseudoreceptor BAMBI. *Nature* 1999; 401:480-5.
- Yan X, Lin Z, Chen F, et al. Human BAMBI cooperates with Smad7 to inhibit transforming growth factor-beta signaling. *J Biol. Chem.* 2009; 284:30097-104.
- Grotewold L, Plum M, Dildrop R, et al. Bambi is coexpressed with Bmp-4 during mouse embryogenesis. *Mech. Dev.* 2001; 100:327-30.
- Fritzmman J, Morkel M, Besser D, et al. A colorectal cancer expression profile that includes transforming growth factor beta inhibitor BAMBI predicts metastatic potential. *Gastroenterology* 2009; 137:165-75.

Images

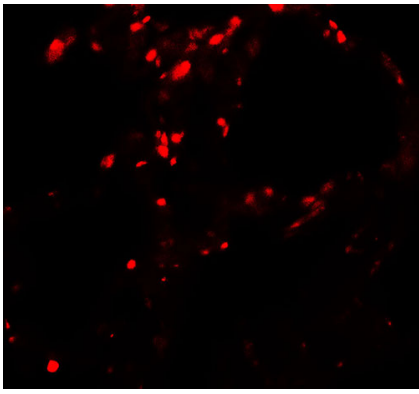


Western blot analysis of BAMBI in mouse lung tissue lysate with BAMBI antibody at 1 μ g/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of BAMBI in human lung tissue with BAMBI antibody at 5 μ g/ml.

Immunofluorescence of BAMBI in human lung tissue with BAMBI antibody at 20 μ g/ml.



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