

BAMBI Rabbit pAb

BAMBI Rabbit pAb Catalog # AP52256

Product Information

Application WB, IHC-P, IHC-F, IF

Primary Accession <u>Q13145</u>

Reactivity Pig, Human, Rabbit, Dog, Sheep

Host Rabbit
Clonality Polyclonal
Calculated MW 29108
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human BAMBI

Epitope Specificity 101-200/260

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Membrane.

SIMILARITY Belongs to the BAMBI family.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background DescriptionsBAMBI is a membrane spanning glycoprotein that acts as a negative regulator

of TGF- β signaling during development. The BAMBI family of proteins are related to type I TGF- β receptor family, however, BAMBI is a pseudoreceptor

that lacks an intracellular serine/threonine kinase domain. BAMBI

transcription regulation is under the influence of β -catenin, BMP, smad3 and smad4. BAMBI expression can increase in colorectal and hepatocellular carcinomas relative to non-cancerous tissues. 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.

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 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.

Dilution WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

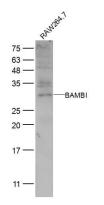
Background

BAMBI is a membrane spanning glycoprotein that acts as a negative regulator of TGF- β signaling during development. The BAMBI family of proteins are related to type I TGF- β receptor family, however, BAMBI is a pseudoreceptor that lacks an intracellular serine/threonine kinase domain. BAMBI transcription regulation is under the influence of β -catenin, BMP, smad3 and smad4. BAMBI expression can increase in colorectal and hepatocellular carcinomas relative to non-cancerous tissues. 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.

References

Degen W.G.J.,et al.Int. J. Cancer 65:460-465(1996). Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Deloukas P.,et al.Nature 429:375-381(2004). Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).

Images



Sample:

RAW264.7 (Mouse) CellLysate at 30 ug

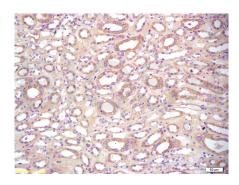
Primary: Anti-BAMBI (AP52256) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000

dilution

Predicted band size: 27 kD Observed band size: 30 kD

Tissue/cell: human kidney tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3%



Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-BAMBI Polyclonal Antibody, Unconjugated(AP52256) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.