10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BMPER Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58547

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N8U9
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75997
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BMPER
Epitope Specificity	501-600/686
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Contains 1 TIL (trypsin inhibitory-like) domain. Contains 5 VWFC domains. Contains 1 VWFD domain.
SUBUNIT	Interacts with BMP4.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a secreted protein that interacts with, and inhibits bone morphogenetic protein (BMP) function. It has been shown to inhibit BMP2- and BMP4-dependent osteoblast differentiation and BMP-dependent differentiation of the chondrogenic cells. Mutations in this gene are associated with a lethal skeletal disorder, diaphanospondylodysostosis. [provided by RefSeq, Dec 2011]. BMPER is a BMP-binding protein that is expressed by endothelial cell precursors, has BMP-antagonizing activity, and may play a role in endothelial cell differentiation by modulating local BMP activity. It may also regulate BMP responsiveness in osteoblasts and chondrocytes.

Additional Information

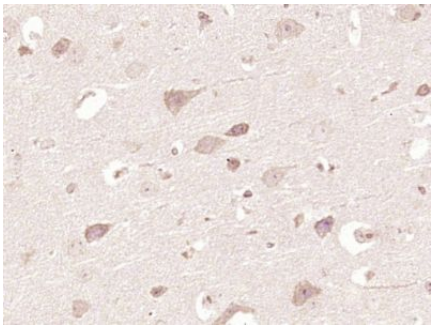
Gene ID	168667
Other Names	BMP-binding endothelial regulator protein, Bone morphogenetic protein-binding endothelial cell precursor-derived regulator, Protein crossveinless-2, hCV2, BMPER, KIAA1965
Target/Specificity	Highly expressed in lung, and brain and also in primary chondrocytes.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

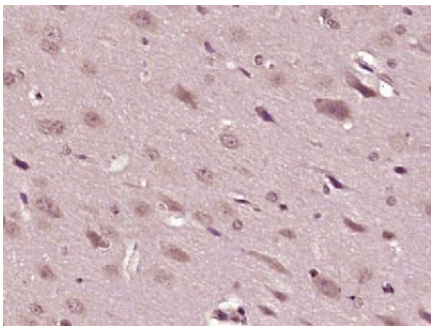
Protein Information

Name	BMPER
Synonyms	KIAA1965
Function	Inhibitor of bone morphogenetic protein (BMP) function, it may regulate BMP responsiveness of osteoblasts and chondrocytes.
Cellular Location	Secreted.
Tissue Location	Highly expressed in lung, and brain and also in primary chondrocytes.

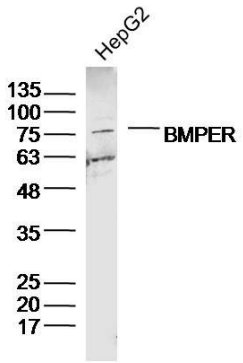
Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BMPER) Polyclonal Antibody, Unconjugated (AP58547) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BMPER) Polyclonal Antibody, Unconjugated (AP58547) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Sample: HepG2 Cell (Human) Lysate at 30 ug
Primary: Anti-BMPER (AP58547)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 72kD
Observed band size: 75kD