SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-BMP8b/AP Conjugated antibody

SL12873R-AP

Product Name	Anti-BMP8b/AP
Chinese Name	碱性磷酸酶（AP）标记的骨形态发生蛋白 8b 抗体
Alias	BMP-8; BMP-8B; BMP8; Bmp8b; BMP8B_HUMAN; Bone morphogenetic protein 8; Bone morphogenetic protein 8B; OP-2; OP2; Osteogenic protein 2.
Research Area	Cell biology Developmental biology Signal transduction Stem cells Growth factors and hormones
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep)
Applications	ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	16kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human BMP8b
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Bone morphogenic proteins (BMPs) are members of the TGF Beta superfamily. BMPs are involved in the induction of cartilage and bone formation. In vivo studies have shown that BMP-2 (also designated BMP-2A) and BMP-3 can independently induce cartilage formation. Smad3 association with the TGF Beta receptor complex and Smad1 translocation to the nucleus are observed after the addition of BMP-4 (also designated BMP-2B),

suggesting that BMP-4 may play a role in activation of the Smad pathway. BMP-5, BMP-6 and BMP-7 all share high sequence homology with BMP-2, indicating that they each may be able to induce cartilage formation. BMP-8 (also designated OP-2) is thought to be involved in early development, as detectable expression has not been found in adult organs.

Function:
Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis.

Subunit:
Homodimer; disulfide-linked.

Subcellular Location:
Secreted.

Similarity:
Belongs to the TGF-beta family.

Database links:
UniProtKB/Swiss-Prot: P34820.2

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.