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BMPR1B Rabbit pAb

Catalog Number:	bs-6639R
Target Protein:	BMPR1B
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
lsotype:	lgG
Applications:	WB (1:500-2000)
Reactivity:	Human (predicted:Mouse, Rat, Rabbit, Sheep, Cow, Dog)
Predicted MW:	56 kDa
Entrez Gene:	658
Swiss Prot:	O00238
Source:	KLH conjugated synthetic peptide derived from human BMPR1B: 61-160/502.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	On ligand binding, forms a receptor complex consisting of two type II and two type I
	transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type
	I receptors which autophosphorylate, then bind and activate SMAD transcriptional
	regulators. Receptor for BMP7/OP-1 and GDF5.
	Involvement in disease; Defects in BMPR1B are the cause of acromesomelic
	chondrodysplasia with genital anomalies (AMDGA). Acromesomelic chondrodysplasias are
	rare hereditary skeletal disorders characterized by short stature, very short limbs, and
	hand/foot malformations. The severity of limb abnormalities increases from proximal to
	distal with profoundly affected hands and feet showing brachydactyly and/or rudimentary
	fingers (knob-like fingers).
	Defects in BMPR1B are a cause of brachydactyly type A2 (BDA2) [MIM:112600].
	Brachydactylies (BDs) are a group of inherited malformations characterized by shortening of
	the digits due to abnormal development of the phalanges and/or the metacarpals. They
	have been classified on an anatomic and genetic basis into five groups, A to E, including
	three subgroups (A1 to A3) that usually manifest as autosomal dominant traits. BDA2 was
	described first in a large Norwegian kindred. BDA2 is caused by mutations in BMPR1B gene
	and studies demonstrate that these mutations function as dominant negatives in vitro and

in vivo.

VALIDATION IMAGES



Sample: U251(human)cell Lysate at 30 ug U87mg(human)cell Lysate at 30 ug Primary: Anti- BMPR1B (bs-6639R)at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54kD Observed band size: 56 kD

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.688] Jianshu Lv. et al. Regulatory role of dihydrotestosterone on BMP-6 receptors in granular cells of sheep antral follicles. Gene. 2021 Nov;:146066 WB,IF,IHC ; Sheep . 34838638