abcam

Product datasheet

Anti-BMPR1B antibody [MM0055-3E12] ab78417

4 References 2 图像

概述

产品名称	Anti-BMPR1B抗体[MM0055-3E12]
描述	**小鼠单克隆抗体**[MM0055-3E12] to BMPR1B
宿主	Mouse
特异性	ab78417 detects BMPR1B. No cross reactivity was found to BMPR1A (ALK3).
经测试应用	**适用于:** WB, ICC/IF, IHC-P
种属反应性	**与反应:** Mouse, Human
免疫原	Recombinant human BMPR1B extracellular domain

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: None Constituents: PBS
纯度	Protein G purified
纯化说明	The IgG fraction of culture supernatant was purified by Protein G affinity chromatography and lyophilized from a 0.2 µm filtered solution in phosphate buffered saline (PBS).
克隆	单克隆
克隆编号	MM0055-3E12
同种型	IgG2a

应用

Our Abpromise guarantee covers the use of **ab78417** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/100 - 1/1000. Detects a band of approximately 57 kDa (predicted molecular weight: 57 kDa).

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration. PubMed: 24173804
IHC-P		1/50 - 1/200.

靶标

功能

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.

疾病相关

Defects in BMPR1B are the cause of acromesomelic chondrodysplasia with genital anomalies (AMDGA) [MIM:609441]. 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.

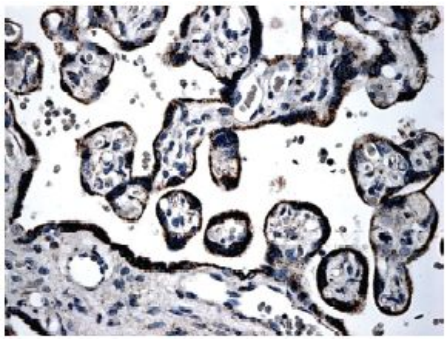
序列相似性

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.
Contains 1 GS domain.
Contains 1 protein kinase domain.

细胞定位

Membrane.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BMPR1B antibody [MM0055-3E12] (ab78417)

ab78417 at 1/200 dilution staining BMPR1B in human placental tissue section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections).

Western blot - Anti-BMPR1B antibody [MM0055-3E12] (ab78417)

All lanes : Anti-BMPR1B antibody [MM0055-3E12] (ab78417) at 1 µg/ml

Lane 1 : Human bone tumor tissue lysate - total protein (ab29359)
Lane 2 : WI38 (Human lung fibroblast cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 57 kDa
Observed band size: 57 kDa
Additional bands at: 30 kDa, 37 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

The band observed at 53 kDa could potentially be a cleaved form of BMPR1B due to presence of a 13 amino acid signal peptide.

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