abcam

# Product datasheet

# Anti-BMPR1B antibody ab110955

1 Image

## Overview

| | |
|---|---|
| **Product name** | Anti-BMPR1B antibody |
| **Description** | Rabbit polyclonal to BMPR1B |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide conjugated to KLH, corresponding to a region within internal sequence amino acids 141-168 of Human BMPR1B (NP_001194.1). |
| **Positive control** | U251 cell line lysates. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C long term. |
| **Storage buffer** | Preservative: 0.09% Sodium azide<br>Constituent: PBS |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | ab110955 is purified through a protein A column, followed by peptide affinity purification. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

Our Abpromise guarantee covers the use of **ab110955** in the following tested applications.

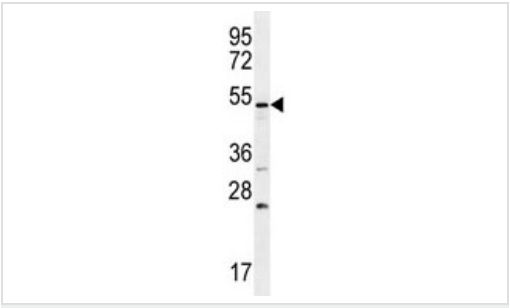
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| WB | | 1/100 - 1/500. Predicted molecular weight: 57 kDa. |

## Target

| | |
|---|---|
| **Function** | 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) [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).<br>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. |
| **Sequence similarities** | Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.<br>Contains 1 GS domain.<br>Contains 1 protein kinase domain. |
| **Cellular localization** | Membrane. |

## Images




Western blot - Anti-BMPR1B antibody (ab110955)

Anti-BMPR1B antibody (ab110955) at 1/100 dilution + U251 cell line lysates at 35 µg

**Predicted band size:** 57 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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