

## ARG54830 anti-BMPR1B antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes BMPR1B   |
| Tested Reactivity   | Hu   |
| Tested Application  | IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | BMPR1B   |
| Species             | Human  |
| Immunogen           | KLH-conjugated synthetic peptide corresponding to aa. 134-162 (Center) of Human BMPR1B.  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | ALK6; CDw293; EC 2.7.11.30; ALK-6; BMP type-1B receptor; BMPR-1B; Bone morphogenetic protein receptor type-1B; CD antigen CDw293 |

### Application Instructions

|                   |  |                 |
|-------------------|--|-----------------|
| Application table | Application  | Dilution        |
|                   | IHC-P  | Assay-dependent |
|                   | WB   | 1:1000          |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |
| Positive Control  | U251   |                 |

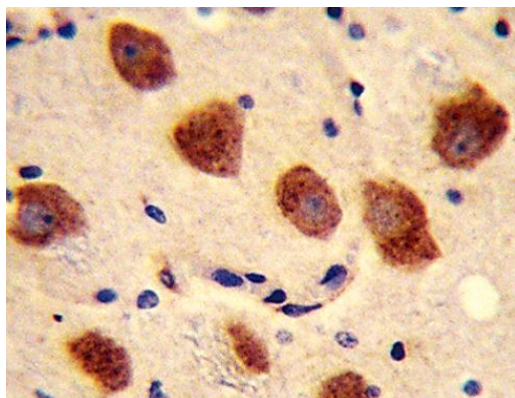
### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Purification with Protein A and immunogen peptide.   |
| Buffer              | PBS and 0.09% (W/V) Sodium azide   |
| Preservative        | 0.09% (W/V) Sodium azide   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

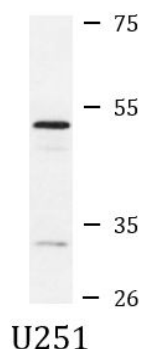
|                       |  |
|-----------------------|--|
| Database links        | <a href="#">GeneID: 658 Human</a><br><a href="#">Swiss-port # O00238 Human</a>   |
| Gene Symbol           | BMPR1B   |
| Gene Full Name        | bone morphogenetic protein receptor, type IB   |
| Background            | This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012] |
| 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. Positively regulates chondrocyte differentiation through GDF5 interaction (By similarity). [UniProt]  |
| Research Area         | Developmental Biology antibody; Gene Regulation antibody; Signaling Transduction antibody  |
| Calculated Mw         | 57 kDa   |
| Cellular Localization | Membrane; Single-pass type I membrane protein  |

## Images



ARG54830 anti-BMPR1B antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG54830 anti-BMPR1B antibody.



ARG54830 anti-BMPR1B antibody WB image

Western blot: 35 µg of U251 cell lysate stained with ARG54830 anti-BMPR1B antibody.