

## Rabbit BMPR1A Polyclonal Antibody | anti-BMPR1A antibody

BMPR1A Antibody (N-term)

| CATALOG # | HOST   | REACTIVITY                               | APPLICATIONS                              |
|-----------|--------|------------------------------------------|-------------------------------------------|
| AAA289578 | Rabbit | Human (Predicted Reactivity: Mouse, Rat) | Western Blot, Immunohistochemistry, ELISA |

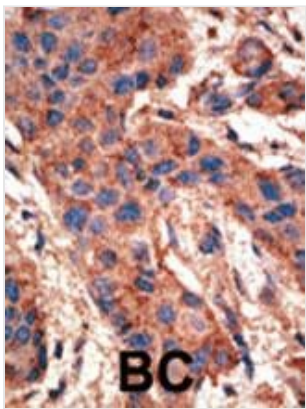
### PRODUCT SYNONYMS

BMPR1A; Polyclonal Antibody; BMPR1A Antibody (N-term); Bone morphogenetic protein receptor type-1A; BMP type-1A receptor; BMPR-1A; Activin receptor-like kinase 3; ALK-3; Serine/threonine-protein kinase receptor R5; SKR5; CD292; ACVRLK3; ALK3; anti-BMPR1A antibody

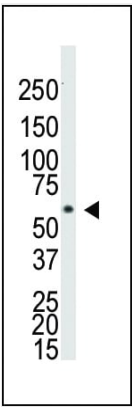
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                    |
| Reactivity                                       | Human (Predicted Reactivity: Mouse, Rat)                                                                                                                                                  |
| Clonality                                        | Polyclonal                                                                                                                                                                                |
| Isotype                                          | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                      | This BMPR1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-60 amino acids from the N-terminal region of human BMPR1A.                    |
| Purity/Purification                              | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                    | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                               | 30-60                                                                                                                                                                                     |
| Sequence Length                                  | 532                                                                                                                                                                                       |
| Applicable Applications for anti-BMPR1A antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                                      |
| Antigen Type                                     | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                   | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |

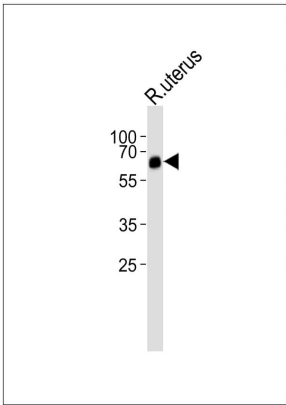
IMAGES



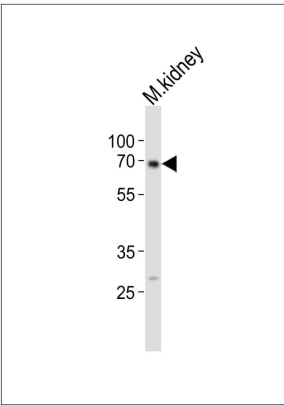
**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



**WB (Western Blot)**  
Western blot analysis of anti-BMPR1A Pab in Saos-2 cell lysate. BMPR1A (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



**WB (Western Blot)**  
Western blot analysis of lysate from rat uterus tissue lysate, using BMPR1A Antibody (E45). AAA289578 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



**WB (Western Blot)**  
Western blot analysis of lysate from mouse kidney tissue, using BMPR1A Antibody (E45). AAA289578 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BMPR1A antibody | The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 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. |
| Product Categories/Family for anti-BMPR1A antibody   | Cardiovascular; Metabolism; Signal transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                           | Kan, L. et al. Stem Cells. January; 27(1): 150?56(2009). Waite, K.A., et al., Hum. Mol. Genet. 12(6):679-684 (2003). Zhou, X.P., et al., Am. J. Hum. Genet. 69(4):704-711 (2001). Astrom, A.K., et al., Mamm. Genome 10(3):299-302 (1999). ten Dijke, P., et al., Oncogene 8(10):2879-2887 (1993). Ide, H., et al., Cytogenet. Cell Genet. 81 (3-4), 285-286 (1998).                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|           |          |
|-----------|----------|
| NCBI GI # | 41349437 |
|-----------|----------|

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GeneID                      | 657                                                       |
| NCBI Accession #                 | NP_004320.2                                               |
| NCBI GenBank Nucleotide #        | NM_004329.2                                               |
| UniProt Accession #              | P36894; Q8NEN8; A8K6U9                                    |
| Molecular Weight                 | 60198                                                     |
| NCBI Official Full Name          | bone morphogenetic protein receptor type-1A               |
| NCBI Official Synonym Full Names | bone morphogenetic protein receptor, type 1A              |
| NCBI Official Symbol             | BMPR1A                                                    |
| NCBI Official Synonym Symbols    | ALK3; SKR5; CD292; ACVRLK3; 10q23del                      |
| NCBI Protein Information         | bone morphogenetic protein receptor type-1A               |
| UniProt Protein Name             | Bone morphogenetic protein receptor type-1A               |
| UniProt Gene Name                | <b>BMPR1A</b>                                             |
| UniProt Synonym Gene Names       | ACVRLK3; ALK3; BMP type-1A receptor; BMPR-1A; ALK-3; SKR5 |
| UniProt Entry Name               | BMR1A_HUMAN                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bmpr1a-antibody-western-blot-immunohistochemistry-elisa/289578>