

**Mouse Bmpr1a Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16478c**

**Specification**

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**Mouse Bmpr1a Antibody (Center) - Product Information**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Application       | WB,E                                                 |
| Primary Accession | <a href="#">P36895</a>                               |
| Other Accession   | <a href="#">Q78EA7</a> , <a href="#">NP_033888.2</a> |
| Reactivity        | Human, Mouse                                         |
| Predicted         | Rat                                                  |
| Host              | Rabbit                                               |
| Clonality         | Polyclonal                                           |
| Isotype           | Rabbit IgG                                           |
| Calculated MW     | 60063                                                |
| Antigen Region    | 170-197                                              |

**Mouse Bmpr1a Antibody (Center) - Additional Information**

**Gene ID** 12166

**Other Names**

Bone morphogenetic protein receptor type-1A, BMP type-1A receptor, BMPR-1A, Activin receptor-like kinase 3, ALK-3, BMP-2/BMP-4 receptor, Serine/threonine-protein kinase receptor R5, SKR5, CD292, Bmpr1a, Acvrlk3, Bmpr

**Target/Specificity**

This Mouse Bmpr1a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-197 amino acids from the Central region of mouse Bmpr1a.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Bmpr1a Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Bmpr1a Antibody (Center) - Protein Information**

**Name** Bmpr1a

**Synonyms** Acvrlk3, Bmpr

**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 BMP2, BMP4, GDF5 and GDF6. Positively regulates chondrocyte differentiation through GDF5 interaction (PubMed:[24098149](#)). Mediates induction of adipogenesis by GDF6 (PubMed:[23527555](#)). May promote the expression of HAMP, potentially via its interaction with BMP2 (PubMed:[31800957](#)).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P36898}; Single-pass type I membrane protein. Cell surface

**Tissue Location**

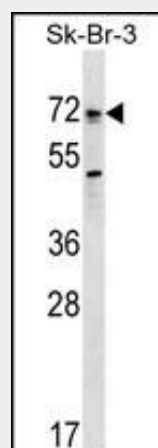
Widely expressed.

**Mouse Bmpr1a Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Mouse Bmpr1a Antibody (Center) - Images**



Mouse Bmpr1a Antibody (Center) (Cat. #AP16478c) western blot analysis in SK-BR-3 cell line lysates (35ug/lane). This demonstrates the Bmpr1a antibody detected the Bmpr1a protein (arrow).

**Mouse Bmpr1a Antibody (Center) - 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 BMP-2 and BMP-4.

#### **Mouse Bmpr1a Antibody (Center) - References**

Drogat, B., et al. Blood 116(12):2141-2151(2010)  
Leung, A.W., et al. Dev. Dyn. 239(9):2319-2329(2010)  
Mira, H., et al. Cell Stem Cell 7(1):78-89(2010)  
Libusova, L., et al. Development 137(14):2297-2305(2010)  
Caronia, G., et al. J. Neurosci. 30(18):6291-6301(2010)