

**Goat Anti-BMPR1A Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1160a

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## Specification

### Goat Anti-BMPR1A Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P36894</a>
Other Accession	<a href="#">NP_004320</a> , <a href="#">657</a>
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	60198

### Goat Anti-BMPR1A Antibody - Additional Information

**Gene ID** 657

#### Other Names

Bone morphogenetic protein receptor type-1A, BMP type-1A receptor, BMPR-1A, 2.7.11.30, Activin receptor-like kinase 3, ALK-3, Serine/threonine-protein kinase receptor R5, SKR5, CD292, BMPR1A, ACVRLK3, ALK3

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-BMPR1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-BMPR1A Antibody - Protein Information

**Name** BMPR1A

**Synonyms** ACVRLK3, ALK3

#### 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. Mediates induction of adipogenesis by GDF6. May promote the expression of HAMP, potentially via its interaction with BMP2 (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P36898}; Single-pass type I membrane protein. Cell surface {ECO:0000250|UniProtKB:P36895}

#### Tissue Location

Highly expressed in skeletal muscle.

### Goat Anti-BMPR1A Antibody - 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](#)

### Goat Anti-BMPR1A Antibody - Images



AF1160a (1 µg/ml) staining of HeLa cell lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-BMPR1A Antibody - Background

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.

### **Goat Anti-BMPRI1A Antibody - References**

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.

Genetic risk factors for hepatopulmonary syndrome in patients with advanced liver disease. Roberts KE, et al. Gastroenterology, 2010 Jul. PMID 20346360.

Germline bone morphogenesis protein receptor 1A mutation causes colorectal tumorigenesis in hereditary mixed polyposis syndrome. Cheah PY, et al. Am J Gastroenterol, 2009 Dec. PMID 19773747.

Adipose tissue expression and genetic variants of the bone morphogenetic protein receptor 1A gene (BMPRI1A) are associated with human obesity. Böttcher Y, et al. Diabetes, 2009 Sep. PMID 19502417.

Pediatric juvenile polyposis syndromes: an update. Huang SC, et al. Curr Gastroenterol Rep, 2009 Jun. PMID 19463221.