

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2)
Mouse Monoclonal Antibody
Catalog # ALS16092

Specification

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - Product Information

Application	IHC, WB
Primary Accession	P36894
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	60kDa KDa

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - 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

Target/Specificity

Human ALK3 / BMPR1A

Reconstitution & Storage

Short term +4°C; Long term -20°C

Precautions

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) is for research use only and not for use in diagnostic or therapeutic procedures.

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - 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; Single-pass type I membrane protein. Cell surface

{ECO:0000250|UniProtKB:P36895}

Tissue Location

Highly expressed in skeletal muscle.

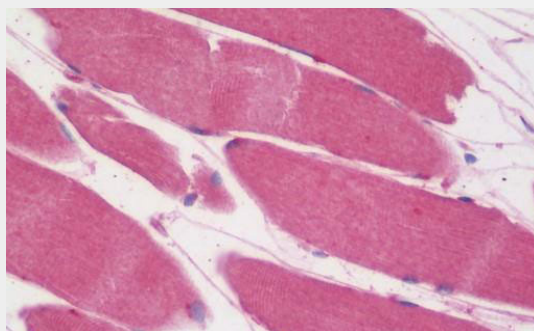
Volume

50 μ l

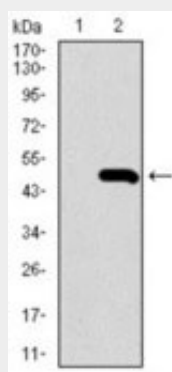
ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - Protocols

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

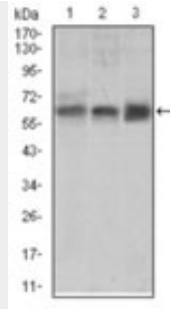
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - Images

Anti-ALK3 / BMPR1A antibody IHC staining of human skeletal muscle.



Western blot using BMPR1A monoclonal antibody against HEK293 (1) and BMPR1A (AA: 179-378)-hlgGfc...



Western blot using BMPR1A mouse monoclonal antibody against PC-3 (1), K562 (2) cell lysate, and...

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - 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.

ALK3 / BMPR1A Antibody (aa179-378, clone 4B7B2) - References

- ten Dijke P., et al. *Oncogene* 8:2879-2887(1993).
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).
- Mahlawat P., et al. *Biochemistry* 51:6328-6341(2012).
- Kirsch T., et al. *Nat. Struct. Biol.* 7:492-496(2000).
- Howe J.R., et al. *Nat. Genet.* 28:184-187(2001).