

## Product datasheet for **TP727409**

### Acvr1b Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Activin Receptor IB/Activin RIB/ALK-4/ACVR1B (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Leu32-Glu126
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Activin Receptor Type-1B is produced by our Mammalian expression system and the target gene encoding Leu32-Glu126 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	11479
UniProt ID:	<a href="#">Q61271</a>
Summary:	Activin Receptor Type-1B (ACVR1B) is a single-pass type I membrane protein that belongs to the protein kinase superfamily. ACVR1B contains one GS domain and one protein kinase domain and is expressed in many tissues, most strongly in kidney, pancreas, brain, lung, and liver. ACVR1B acts as a transducer of activin or activin like ligands signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B, ACVR2A or ACVR2B activating ACVR1B through phosphorylation of its regulatory GS domain. They go on to recruit the R-SMADs, SMAD2 and SMAD3. ACVR1B also transducers signals of nodal, GDF-1, and Vg1. Mutations in ACVR1B are associated with pituitary tumors.



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