

RPCB1100

Product Information

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|---------------------|----------|--------------------|-------|--------------|------|
| Product SKU: | RPCB1100 | Gene ID: | 11479 | Size: | 10µg |
| Tag: | C-hFc | Reactivity: | Mouse | | |

Additional Information

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|-------------------------|--------------------|-------------------|--------|
| Expression Host: | HEK293 cells | Swissprot: | Q61271 |
| Purity: | > 92% by SDS-PAGE. | | |

Protein Information

Background: ACVR1B (Activin A Receptor, type 1B), belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family, and TGFB receptor subfamily. ALK-4/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. The known type II activin receptors include ActRII and ActRIIB, while the main type I activin receptor in mammalian cells is ALK-4 (ActRIB). In the presence of activin, type II and type I receptors form complexes whereby the type II receptors activate ALK-4 through phosphorylation. The activated ALK-4, in turn, transduces signals downstream by phosphorylation of its effectors, such as Smads, to regulate gene expression and affect cellular phenotype. ALK-4/ACVR1B is an important regulator of vertebrate development, with roles in mesoderm induction, primitive streak formation, gastrulation, dorsoanterior patterning, and left-right axis determination.

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Mouse ALK-4/ACVR1B Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

Endotoxin: < 0.01EU/µg

Formulation: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage:

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.