Recombinant Human Activin RIIB/ACVR2B Protein

RPCB0375

Protein Information

Size:	10 µg , 20 µg , 50 µg , 100 µg	**Tag:**	C-hFc&His
Reactivity:	Human	**Expressed Host:**	HEK293 cells
Calculated MW:	40.12 kDa	**Observerd MW:**	55-70 kDa

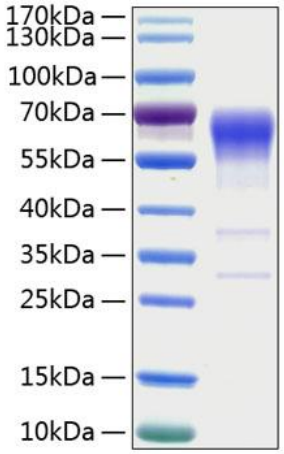
Background

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.

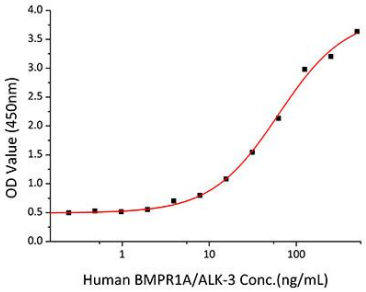
Properties

Synonyms:	ACVR2B, ACTRIIB, ActR-IIB, HTX4
Gene ID:	93
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Description:	High quality, high purity and low endotoxin recombinant Recombinant Human Activin RIIB/ACVR2B Protein (RPCB0375), tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.
Purity:	≥ 95 % as determined by SDS-PAGE.
Storage:	Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.

Validation Data



Recombinant Human Activin RIIB/ACVR2B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human ACVR2B at 1 μg/mL (100 μL/well) can bind Human BMPRIA with a linear range of 0.5-62.5 ng/mL.