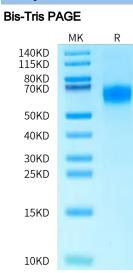
Human/Cynomolgus Activin RIIB/ACVR2B Protein

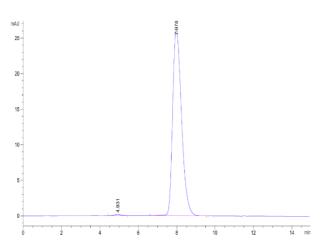
Cat. No. ARB-HM22B

| Description | |
|-------------------------|---|
| Source | Recombinant Human/Cynomolgus Activin RIIB/ACVR2B Protein is expressed from HEK293 with hFc tag at the C-terminus. |
| | It contains Ser19-Thr137 (Human) / Ser40-Thr158 (Cynomolgus). |
| Accession | Q13705-1(Human) / XP_045242398.1(Cynomolgus) |
| Molecular Weight | The protein has a predicted MW of 39.6 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | >95% as determined by Bis-Tris PAGE |
| | >95% as determined by HPLC |
| Formulation and Storage | |
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Background | |
| | ActRIIB (activin receptor type-2B) is an activin receptor subtype constitutively expressed in the whole body, playing a role in cellular proliferation, differentiation, and metabolism. For its various physiological activities, ActRIIB interacts with activin and multiple other ligands including myostatin (MSTN), growth differentiation factor 11 (GDF11), and bone morphogenetic protein 9 (BMP9). |

Assay Data



SEC-HPLC



Human/Cynomolgus Activin RIIB on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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The purity of Human/Cynomolgus Activin RIIB is greater than 95% as determined by SEC-HPLC.

Human/Cynomolgus Activin RIIB/ACVR2B Protein

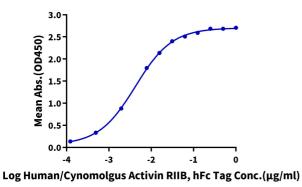
Cat. No. ARB-HM22B

Assay Data

ELISA Data

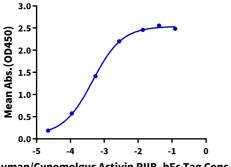
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ELISA Data





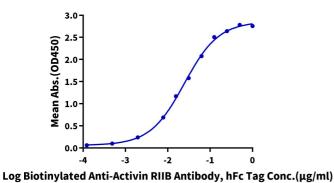
Immobilized Human Activin A, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human/Cynomolgus Activin RIIB, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA (QC Test).

Immobilized Human/Mouse/Rat GDF-8, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human/Cynomolgus Activin RIIB, hFc Tag with the EC50 of 0.5ng/ml determined by ELISA.

Log Human/Cynomolgus Activin RIIB, hFc Tag Conc.(µg/ml)

ELISA Data





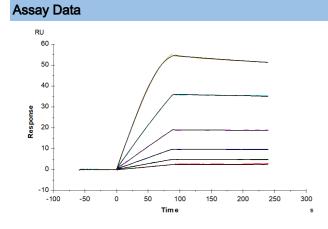
Immobilized Human/Cynomolgus Activin RIIB, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Activin RIIB Antibody, hFc Tag with the EC50 of 24.7ng/ml determined by ELISA.

SPR Data

Human/Cynomolgus Activin RIIB/ACVR2B Protein

Cat. No. ARB-HM22B

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Human/Cynomolgus Activin RIIB, hFc Tag captured on CM5 Chip via Protein A can bind Human GDF-2, No Tag with an affinity constant of 26.57 pM as determined in SPR assay (Biacore T200).