Recombinant Rat ACVR1B cell lysate

Cat. No. ACVR1B-1206RCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat ACVR1B / ALK-4 derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer.Browse all transfected cell lysate positive controls
Species	Rat
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.2. Re-dissolve the pellet using 200μL pure water and boiled for 2-5 min.3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.Notes:The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	Acvr1b activin A receptor, type IB [Rattus norvegicus]
Official Symbol	ACVR1B
Synonyms	ACVR1B; activin A receptor, type IB; activin receptor type-1B; ALK-4; ACTR-IB; activin receptor type IB; activin A receptor, type 1B; activin receptor-like kinase 4; Serine/threonine-protein kinase receptor R2; Skr2;
Gene ID	29381
mRNA Refseq	NM_199230
Protein Refseq	NP_954700
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; MAPK signaling pathway, organism-specific biosystem;

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Function	ATP binding; ATP binding; SMAD binding; SMAD binding; activin binding; activin binding; contributes_to activin binding; activin receptor activity, type I; activin receptor activity, type I; activin receptor activity, type I; contributes_to activin-activated receptor activity; contributes_to growth factor binding; inhibin binding; metal ion binding; nucleotide binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; ubiquitin protein ligase binding;

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