

For Research Use Only

ACVR1B Recombinant antibody

Catalog Number: 83026-6-RR



Basic Information

Catalog Number:	83026-6-RR	GenBank Accession Number:	BC000254	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	91	CloneNo.:	230260C1
Source:	Rabbit	UNIPROT ID:	P36896	Recommended Dilutions:	WB 1:1000-1:4000 IHC 1:500-1:2000
Isotype:	IgG	Full Name:	activin A receptor, type IB		
Immunogen Catalog Number:	AG0129	Calculated MW:	57 kDa		
		Observed MW:	52 kDa		

Applications

Tested Applications:	WB, IHC, FC (Intra), ELISA	Positive Controls:	
Species Specificity:	human, mouse, rat	WB :	Caco-2 cells, HepG2 cells, HEK-293 cells
		IHC :	rat brain tissue, mouse brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			

Background Information

ACVR1B (ALK4, activin A receptor type 1B) is a transforming growth factor-beta (TGF-beta) superfamily member (PMID: 37020544). A potential role for ACVR1B in regulating muscle mass is that it is part of the transforming growth factor b (TGFb) pathway regulating myostatin (PMID: 21063444).

Storage

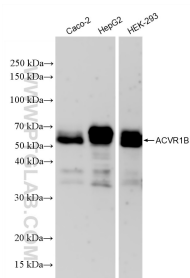
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

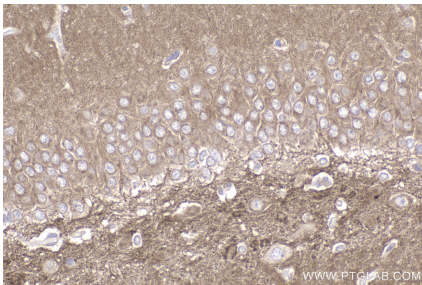
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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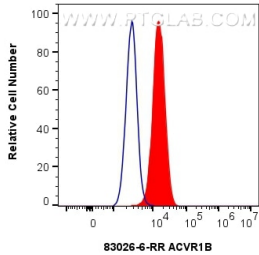
Selected Validation Data



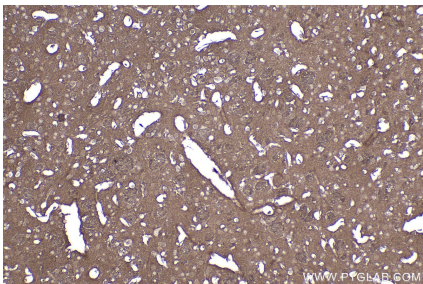
Various lysates were subjected to SDS PAGE followed by western blot with 83026-6-RR (ACVR1B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



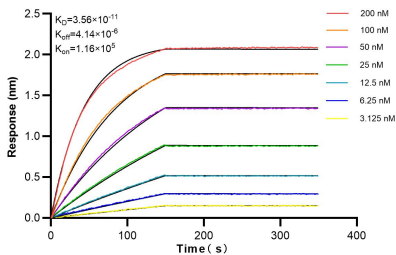
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 83026-6-RR (ACVR1B antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ A549 cells were intracellularly stained with 0.4 ug ACVR1B Recombinant antibody (83026-6-RR, Clone:230260C1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83026-6-RR (ACVR1B antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83026-6-RR against Human ACVR1B were performed. The affinity constant is 35.6 pM.