For Research Use Only

AP2S1 Recombinant antibody

Catalog Number:84174-3-RR

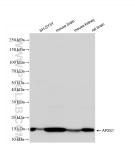


Basic Information	Catalog Number: 84174-3-RR	GenBank Accession Number: BC006337	Purification Method: Protein A purfication
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG8095	GeneID (NCBI): 1175 UNIPROT ID:	CloneNo.: 241369F1 Recommended Dilutions:
		P53680 Full Name: adaptor-related protein compl sigma 1 subunit Calculated MW: 142 aa, 17 kDa Observed MW:	WB 1:1000-1:8000 IHC 1:400-1:1600 Iex 2, IF/ICC 1:125-1:500
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity: human, mouse, rat Note-IHC: suggested antigen re	WB : Sł tissue, IHC : n etrieval with	re Controls: H-SY5Y cells, mouse brain tissue, mouse kidney rat brain tissue nouse testis tissue,
Background Information	mediate the sorting of membrane pro coated vesicles (CCVs) by recruiting t selection by recognizing the sorting si	rery, antigen ith citrate protein complex 2 (AP-2). AP co teins in the secretory and endo he scaffold protein, clathrin. Af ignals within the cytoplasmic t	HeLa cells, omplexes are cytosolic heterotetramers that cytic pathways. AP complexes form clathrin- P complexes also play a pivotal role in cargo cail of integral membrane proteins. AP-2 is
	composed of two large adaptins (alpha-type subunit AP2A1 or AP2A2 and beta-type subunit AP2B1), a medium adaptin (mu-type subunit AP2M1), and a small adaptin (sigma-type subunit AP2S1). It works on the plasma membrane to internalize cargo in clathrin-mediated endocytosis. Missense mutations of AP2S1 affect Arg15 and lead to familial hypocalciuric hypercalcemia type 3 (FHH3), an extracellular calcium homeostasis disorder affectin the parathyroids, kidneys, and bone (PMID: 23222959).		
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50° Aliquoting is unnecessary for -20°C st	% glycerol pH 7.3.	

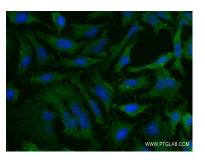
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

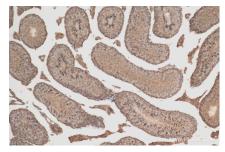
Selected Validation Data



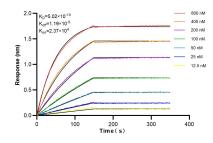
Various lysates were subjected to SDS PAGE followed by western blot with 84174-3-RR (AP2S1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using AP2S1 antibody (84174-3-RR, Clone: 241369F1) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 84174-3-RR (AP2S1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLl) kinetic assays of 84174-3-RR against Human AP2S1 were performed. The affinity constant is 0.502 nM.