

AP1B1 Recombinant monoclonal antibody

Catalog Number: 87859-1-RR

Basic Information

Catalog Number: 87859-1-RR	GenBank Accession Number: BC046242	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 162	CloneNo.: 253524A11
Isotype: IgG	UNIPROT ID: Q10567	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG10417	Full Name: adaptor-related protein complex 1, beta 1 subunit	
	Calculated MW: 919 aa, 101 kDa	
	Observed MW: 101 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: HT-29 cells, HEK-293 cells, HeLa cells, A431 cells, PC-12 cells, mouse liver tissue, rat liver tissue

IHC: human colon tissue,

IF/ICC: HepG2 cells,

Background Information

AP1B1 is a subunit of the adaptor complex AP-1 and is a member of the adaptin protein family. Adaptor protein (AP) complexes are cytosolic heterotetramers that mediate the sorting of membrane proteins in the secretory and endocytic pathways. AP-1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. (PMID: 41117250)

Storage

Storage:

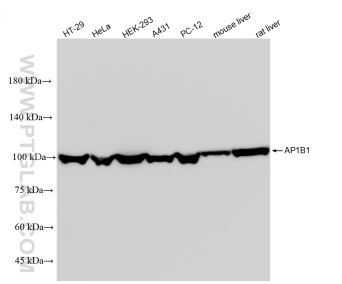
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

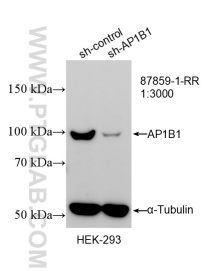
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

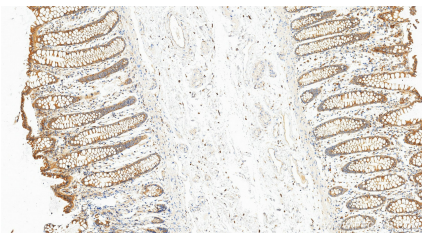
Selected Validation Data



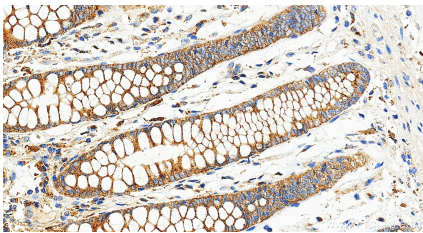
Various lysates were subjected to SDS PAGE followed by western blot with 87859-1-RR (AP1B1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



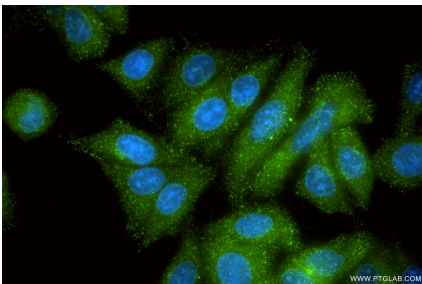
WB result of AP1B1 antibody (87859-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AP1B1 transfected HEK-293 cells.



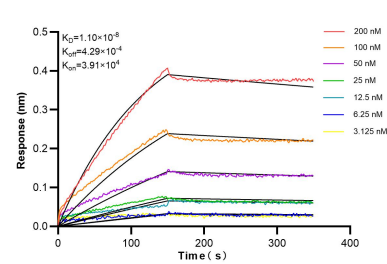
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87859-1-RR (AP1B1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87859-1-RR (AP1B1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using AP1B1 antibody (87859-1-RR, Clone: 253524A11) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 87859-1-RR against Human AP1B1 were performed. The affinity constant is 11.0 nM.