For Research Use Only

AP2S1 Recombinant antibody

Catalog Number:84174-3-RR



Basic Information

Catalog Number:

GenBank Accession Number: BC006337

Purification Method:

84174-3-RR Size:

GeneID (NCBI):

Protein A purfication

CloneNo.:

1000 ug/ml

1175

241369F1

Source: Rabbit

UNIPROT ID: P53680

Recommended Dilutions:

Isotype:

Full Name:

WB 1:1000-1:8000 IHC 1:400-1:1600 IF/ICC 1:125-1:500

Immunogen Catalog Number:

sigma 1 subunit

AG8095

Calculated MW: 142 aa, 17 kDa

Observed MW: 15-17 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

IHC: mouse testis tissue.

adaptor-related protein complex 2,

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: SH-SY5Y cells, mouse brain tissue, mouse kidney

tissue, rat brain tissue

IF/ICC : HeLa cells.

Background Information

AP2S1 is a component of the adaptor protein complex 2 (AP-2). AP complexes are cytosolic heterotetramers that mediate the sorting of membrane proteins in the secretory and endocytic pathways. AP complexes form clathrincoated vesicles (CCVs) by recruiting the scaffold protein, clathrin. AP complexes also play a pivotal role in cargo selection by recognizing the sorting signals within the cytoplasmic tail 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 affecting the parathyroids, kidneys, and bone (PMID: 23222959).

Storage

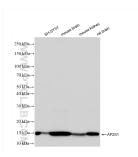
Storage:

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

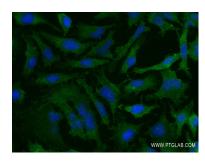
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

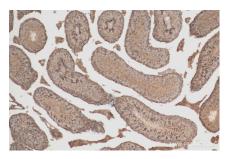
Selected Validation Data



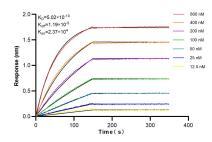
Various lysates were subjected to SDS PAGE followed by western blot with 84174-3-RR (AP2S1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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