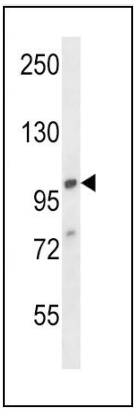
AP2A1 Antibody – Rabbit Polyclonal

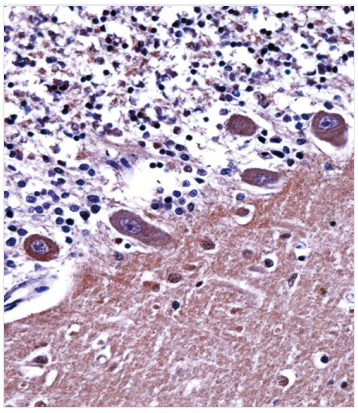
PRODUCT OVERVIEW

Product Name	AP2A1, Polyclonal Antibody
Full Product Name	AP2A1, CT (AP2A1, ADTAA, CLAPA1, AP-2 complex subunit alpha-1, 100kD coated vesicle protein A, Adapter-related protein complex 2 alpha-1 subunit, Adaptor protein complex AP-2 subunit alpha-1, Alpha-adaptin A, Alpha1-adaptin, Clathrin assembly protein comp
Product Gene Name	anti-AP2A1 antibody
Product Synonym Names	AP2A1; ADTAA; CLAPA1; AP-2 complex subunit alpha-1; 100kD coated vesicle protein A; Adapter-related protein complex 2 alpha-1 subunit; Adaptor protein complex AP-2 subunit alpha-1; Alpha-adaptin A; Alpha1-adaptin; Clathrin assembly protein complex 2 alpha-A large chain; Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	107,546 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (50270180..50310369). Location: 19q13.33
OMIM	601026
3D Structure	ModBase 3D Structure for O95782
Immunogen	AP2A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 705-735 amino acids from the C-terminal region of human AP2A1.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-AP2A1 antibody	Antibodies; Clathrin
Applications Tested/Suitable for anti-AP2A1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-AP2A1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-AP2A1 antibody	This gene encodes the alpha 1 adaptin subunit of the adaptor protein 2 (AP-2) complex found in clathrin coated vesicles. The AP-2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles which links clathrin to receptors in vesicles. Alternative splicing of this gene results in two transcript variants encoding two different isoforms. A third transcript variant has been described, but its full length nature has not been determined.
Product References and Citations for anti-AP2A1 antibody	Mitchell, R.S., et al. J. Virol. 82(16):7758-7767(2008). Kitagawa, Y., et al. Virology 373(1):171-180(2008). Stove, V., et al. J. Virol. 79(17):11422-11433(2005). Lu, W., et al. Neuron 47(3):407-421(2005). Pope, S.N., et al. J. Steroid Biochem. Mol. Biol. 94 (1-3), 203-208 (2005).
Other Notes	Small volumes of anti-AP2A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AP2A1 purchase	MBS6274070 is an antibody targeting AP2A1. Also known as AP2A1, CT (AP2A1, ADTAA, CLAPA1, AP-2 complex subunit alpha-1, 100kD coated vesicle protein A, Adapter-related protein complex 2 alpha-1 subunit, Adaptor protein complex AP-2 subunit alpha-1, Alpha-adaptin A, Alpha1-adaptin, Clathrin assembly protein comp. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-AP2A1 antibody
AP2A1 Antibody (C-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the AP2A1 antibody detected the AP2A1 protein (arrow).



Immunohistochemistry (IHC) of anti-AP2A1 antibody
AP2A1 Antibody (C-term) (AP13905b)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of AP2A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AP2A1. It may not necessarily be applicable to this product.

NCBI GI #	19913416
NCBI GeneID	160
NCBI Accession #	NP_570603.2
NCBI Related Accession #	NP_055018.2
UniProt Primary Accession #	O95782
UniProt Secondary Accession #	Q96CI7; Q96PP6; Q96PP7; Q9H070
UniProt Related Accession #	O95782; Q8N9K4
GenBank Nucleotide #	NM_130787.2
NCBI Official Full Name	AP-2 complex subunit alpha-1 isoform 2
NCBI Official Synonym Full Names	adaptor-related protein complex 2, alpha 1 subunit
NCBI Official Symbol	AP2A1
NCBI Official Synonym Symbols	ADTAA; CLAPA1; AP2-ALPHA

UniProt Protein Name	AP-2 complex subunit alpha-1
UniProt Synonym Protein Names	100 kDa coated vesicle protein A; Adapter-related protein complex 2 alpha-1 subunit; Adaptor protein complex AP-2 subunit alpha-1; Alpha-adaptin A; Alpha1-adaptin; Clathrin assembly protein complex 2 alpha-A large chain; Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit
Protein Family	AP-2 complex
UniProt Gene Name	AP2A1
UniProt Synonym Gene Names	ADTAA; CLAPA1
UniProt Entry Name	AP2A1_HUMAN
NCBI Protein Information	AP-2 complex subunit alpha-1; alpha1-adaptin; alpha-adaptin A; adaptin, alpha A; 100 kDa coated vesicle protein A; adaptor protein complex AP-2 subunit alpha-1; adapter-related protein complex 2 alpha-1 subunit; clathrin assembly protein complex 2 alpha-A
Research Articles on AP2A1	**1.** nef usurps AP-2 complexes to dysregulate Ii (invariant chain (Ii)/major histocompatibility complex class II) trafficking and potentially interfere with antigen presentation in the context of MHC-II
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