AP1S3 Antibody – Rabbit Polyclonal

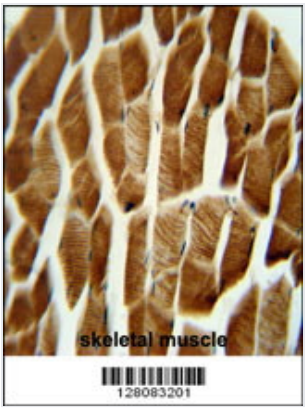
PRODUCT OVERVIEW

Product Name	AP1S3, Polyclonal Antibody
Full Product Name	AP1S3, NT (AP1S3, AP-1 complex subunit sigma-3, Adapter-related protein complex 1 sigma-1C subunit, Adaptor protein complex AP-1 sigma-1C subunit, Clathrin assembly protein complex 1 sigma-1C small chain, Golgi adaptor HA1/AP1 adaptin sigma-1C subunit, Si
Product Gene Name	anti-AP1S3 antibody
Product Synonym Names	AP1S3; AP-1 complex subunit sigma-3; Adapter-related protein complex 1 sigma-1C subunit; Adaptor protein complex AP-1 sigma-1C subunit; Clathrin assembly protein complex 1 sigma-1C small chain; Golgi adaptor HA1/AP1 adaptin sigma-1C subunit; Sigma 1C subunit of AP-1 clathrin; Sigma-adaptin 1C; Sigma1C-adaptin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	12,655 Da
OMIM	615781
3D Structure	ModBase 3D Structure for Q96PC3
Immunogen	AP1S3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-45 amino acids from the N-terminal region of human AP1S3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-AP1S3 antibody	Antibodies; Clathrin
Applications Tested/Suitable for anti-AP1S3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-AP1S3 antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-AP1S3 antibody	MBS6274051 is an antibody targeting AP1S3. Also known as AP1S3, NT (AP1S3, AP-1 complex subunit sigma-3, Adapter-related protein complex 1 sigma-1C subunit, Adaptor protein complex AP-1 sigma-1C subunit, Clathrin assembly protein complex 1 sigma-1C small chain, Golgi adaptor HA1/AP1 adaptin sigma-1C subunit, Si. Reactive in Human, Mouse. Host: Rabbit.

Product References and Citations for anti-AP1S3 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Roeth, J.F., et al. J. Cell Biol. 167(5):903-913(2004). Hirst, J., et al. Mol. Biol. Cell 12(11):3573-3588(2001). Boehm, M., et al. Mol. Biol. Cell 12(10):2907-2920(2001). Kirchhausen, T. Nat. Rev. Mol. Cell Biol. 1(3):187-198(2000).
Other Notes	Small volumes of anti-AP1S3 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.



Western Blot (WB) of anti-AP1S3 antibody
AP1S3 Antibody (N-term) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the AP1S3 antibody detected the AP1S3 protein (arrow).



Immunohistochemistry (IHC) of anti-AP1S3 antibody
AP1S3 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AP1S3 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AP1S3. It may not necessarily be applicable to this product.

NCBI GI #	88703051
NCBI GeneID	130340
NCBI Accession #	NP_001034658.1
UniProt Primary Accession #	Q96PC3
UniProt Secondary Accession #	Q8WTY1; Q96DD1; B4DQZ1
UniProt Related Accession #	Q96PC3
GenBank Nucleotide #	NM_001039569.1
NCBI Official Full Name	AP-1 complex subunit sigma-3
NCBI Official Synonym Full Names	adaptor related protein complex 1 sigma 3 subunit
NCBI Official Symbol	AP1S3
NCBI Official Synonym Symbols	PSORS15
UniProt Protein Name	AP-1 complex subunit sigma-3
UniProt Synonym Protein Names	Adaptor protein complex AP-1 subunit sigma-1C; Adaptor-related protein complex 1 subunit sigma-1C; Clathrin assembly protein complex 1 sigma-1C small chain; Golgi adaptor HA1/AP1 adaptin sigma-1C subunit; Sigma 1C subunit of AP-1 clathrin; Sigma-adaptin 1C; Sigma1C-adaptin
Protein Family	AP-1 complex
UniProt Gene Name	AP1S3
UniProt Entry Name	AP1S3_HUMAN
NCBI Protein Information	AP-1 complex subunit sigma-3

NCBI Summary for AP1S3	This gene encodes a member of the adaptor-related protein complex 1, sigma subunit genes. The encoded protein is a component of adaptor protein complex 1 (AP-1), one of the AP complexes involved in claathrin-mediated vesicular transport from the Golgi or endosomes. Disruption of the pathway for display of HIV-1 antigens, which prevents recognition of the virus by cytotoxic T cells, has been shown to involve the AP-1 complex (PMID: 15569716). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
UniProt Comments for AP1S3	AP1S3: Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. Belongs to the adaptor complexes small subunit family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle; Adaptor/scaffold Chromosomal Location of Human Ortholog: 2q36.1 Cellular Component: coated pit; cytoplasmic vesicle membrane; cytosol; Golgi membrane; lysosomal membrane; membrane coat; trans-Golgi network membrane Molecular Function: protein binding; protein transporter activity Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; post-Golgi vesicle-mediated transport; protein targeting; regulation of defense response to virus by virus; viral reproduction Disease: Psoriasis 15, Pustular, Susceptibility To
Research Articles on AP1S3	**1.** AP1S3 silencing disrupted the endosomal translocation of the innate pattern-recognition receptor TLR-3 (Toll-like receptor 3) and resulted in a marked inhibition of downstream signaling.
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