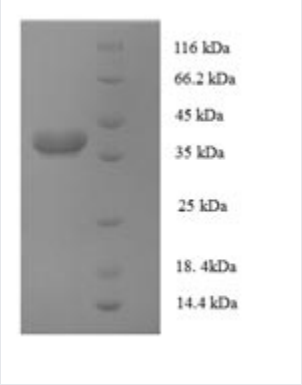
Ap-1 Complex Subunit Sigma-3 (AP1S3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	AP-1 complex subunit sigma-3 (AP1S3), Recombinant Protein
Full Product Name	Recombinant Human AP-1 complex subunit sigma-3
Product Gene Name	AP1S3 recombinant protein
Product Synonym 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
Sequence	MIHFILLFSR QGKLRLQKWY ITLPDKERKK ITREIVQIIL SRGHRTSSFV DWKELKLVYK RYASLYFCCA IENQDNELLT LEIVHRYVEL LDKYFGNTWP FARA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	39.7 kDa
Sequence Positions	1-104aa; Full Length of Isoform 3
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	615781
3D Structure	ModBase 3D Structure for Q96PC3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AP1S3 recombinant protein	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. Involved in TLR3 trafficking.

Product References and Citations for AP1S3 recombinant protein	Adaptins the final recount.Boehm M., Bonifacino J.S.Mol. Biol. Cell 12:2907-2920(2001) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Generation and annotation of the DNA sequences of human chromosomes 2 and 4.Hillier L.W., Graves T.A., Fulton R.S., Fulton L.A., Pepin K.H., Minx P., Wagner-McPherson C., Layman D., Wylie K., Sekhon M., Becker M.C., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Kremitzki C., Oddy L., Du H., Sun H., Bradshaw-Cordum H., Ali J., Carter J., Cordes M., Harris A., Isak A., van Brunt A., Nguyen C., Du F., Courtney L., Kalicki J., Ozersky P., Abbott S., Armstrong J., Belter E.A., Caruso L., Cedroni M., Cotton M., Davidson T., Desai A., Elliott G., Erb T., Fronick C., Gaige T., Haakenson W., Haglund K., Holmes A., Harkins R., Kim K., Kruchowski S.S., Strong C.M., Grewal N., Goyea E., Hou S., Levy A., Martinka S., Mead K., McLellan M.D., Meyer R., Randall-Maher J., Tomlinson C., Dauphin-Kohlberg S., Kozlowicz-Reilly A., Shah N., Swearengen-Shahid S., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski J.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendl M.C., Yang S.-P., Pohl C., Wallis J.W., Spieth J., Bieri T.A., Berkowicz N., Nelson J.O., Osborne J., Ding L., Meyer R., Sabo A., Shotland Y., Sinha P., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Jones T.A., She X., Ciccarelli F.D., Izaurralde E., Taylor J., Schmutz J., Myers R.M., Cox D.R., Huang X., McPherson J.D., Mardis E.R., Clifton S.W., Warren W.C., Chinwalla A.T., Eddy S.R., Marra M.A., Ovcharenko I., Furey T.S., Miller W., Eichler E.E., Bork P., Suyama M., Torrents D., Waterston R.H., Wilson R.K.Nature 434:724-731(2005) AP1S3 mutations are associated with pustular psoriasis and impaired Toll-like receptor 3 trafficking.Setta-Kaffetzi N., Simpson M.A., Navarini A.A., Patel V.M., Lu H.C., Allen M.H., Duckworth M., Bachelez H., Burden A.D., Choon S.E., Griffiths C.E., Kirby B., Kolios A., Seyger M.M., Prins C., Smahi A., Trembath R.C., Fraternali F., Smith C.H., Barker J.N., Capon F.Am. J. Hum. Genet. 94:790-797(2014)
Other Notes	Small volumes of AP1S3 recombinant protein 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 AP1S3 purchase	MBS1265400 is a recombinant protein targeting AP1S3. Also known as Recombinant Human AP-1 complex subunit sigma-3. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of AP1S3 recombinant protein

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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