

Recombinant Human A2ML1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. A2ML1-1627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A2ML1 MS Standard C13 and N15-labeled recombinant protein (NP_653271) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the alpha-macroglobulin superfamily. The encoded protein is thought to be an N-glycosylated monomeric protein that acts as an inhibitor of several proteases. It has been shown to form covalent interactions with proteases, and has been reported as the p170 antigen recognized by autoantibodies in the autoimmune disease paraneoplastic pemphigus (PNP; PMID:20805888). Mutations in these gene have also been associated with some cases of Noonan syndrome (NS; PMID:24939586) as well as some cases of otitis media (PMID:26121085). Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	161 kDa
AA Sequence	MWAQLLLGMLALSPAIAEELPNYLVTLPARLNFPSVQKVCLDLSPGYSDVKFTVTLET KDKTQKLLEYSGLKKRHLHCISFLVPPPAGGTEEVATIRVSGVGNNISFEEKKKVLIQ RQGNQTFVQTDKPLYTPGQQVYFRIVTMDSNFVPVNDKYSMVQLQDPNSNRFAQW LEVVPQEGIVDLSFQLAPEAMLGTYTVAVAEGKTFGTFSVEEYVLPKFKVEVVEPKE LSTVQESFLVKICCRYTYGKPMLGAVQVSVCQKANTYWYREVEREQLPDKCRNLGS

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QTDKTGCF SAPVDMATFDLIGYAYSHQINIVATVVEEGTGVEANATQNIYISPQMGS
 MTFEDTSN FYHPNFPFSGKIRVRGHDD SFLKNHLVFLVIYGTNGTFNQTLVTDNNGL
 APFTLETSGWNGTDVSLEGKFQMEDLVYNPEQVPRYYQNAYLHLRPFYSTTRSFLG
 IHRLNGPLKCGQPQEVLVDYYIDPADASPDQEISFSYYLIGKGSVMEGQKHLNSKK
 KGLKASFSLSLTFTSRLAPDPSLVIYAIFPSGGVVADKIQFSVEMCFDNQVSLGFSPS
 QQLPGAEEVLQLQAAPGSLCALRAVDESLLLLRPDRELSNRSVYGMFPFWYGHYP
 YQVAEYDQCPVSGPWDFPQPLIDPMPQGHSSQRSIIWRPSFSEGTDLFSFFRDVGL
 KILSNAKIKKPVDCSHRSPEYSTAMGAGGGHPEAFESSTPLHQAEDSQVRQYFPET
 WLWDLFPIGNSGKEAVHVTVPDAITEWKAMSFCTSQSRGFGLSPTVGLTAFKPFV
 DLTLPYSVVRGESFRLTATIFNYLKDCIRVQTDLAKSHEYQLESWADSQTSSCLCAD
 EAKTHHWNITAVKLGHINFTISTKILDSNEPCGGQKGFVPQKGRSDTLIKPVLVKPEG
 VLVEKTHSSLLCPKGKVASSEVSLELPVDIVPDSTKAYVTVLGDIMG TALQNLDGLVQ
 MPSGCGEQNMVLFAPIIYVLQYLEKAGLLTEEIRSRVGFLEIGYQKELMYKHSNGSY
 SAFGERDGNNGNTWLTAFVTKCFGQAQKFIFIDPKNIQDALKWMAGNQLPSGCIYANV
 GNLLHTAMKGGVDDEVSLTAYVTAALLEMGKD VDDPMVSQGLRCLKNSATSTTNLY
 TQALLAYIFSLAGEMDIRNILLKQLDQQAISGESIYWSQKPTPSSNASPWSEPAAVDV
 ELTAYALLAQLTKPSLTQKEIAKATSIVAWLAKQRNAYGGFSSTQDTVVALQALAKYA
 TTAYMPSEEINLVVKSTENFQRTFNISVNRLVFQQDTLPNVP GMYTLEASGQGCYV
 VQTVLRYNILPPTNMKTFSLSVEIGKARCEQPTSPRSLTLTIHTSYVGSRSSSNMAIV
 EVKMLSGFSPMEGTNQLLLQQPLVKKVEFGTDTLNIYLD ELIKNTQTYTFTISQSVLV
 TNLKPATIKVYDYLLPDEQATIQYSDPCETRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [A2ML1 alpha-2-macroglobulin-like 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [A2ML1](#)

Synonyms A2ML1; alpha-2-macroglobulin-like 1; C3 and PZP like, alpha 2 macroglobulin domain containing 9, CPAMD9; alpha-2-macroglobulin-like protein 1; FLJ25179; C3 and PZP-like, alpha-2-macroglobulin domain containing 9; CPAMD9; FLJ16045; FLJ39129; FLJ41597; FLJ41598; FLJ41607; DKFZp686C1729; DKFZp686D2011; DKFZp686G1812; DKFZp686L1821; DKFZp686O1010;

Gene ID [144568](#)

mRNA Refseq [NM_144670](#)

Protein Refseq [NP_653271](#)

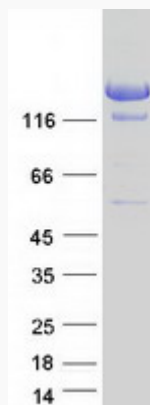
MIM [610627](#)

UniProt ID [A8K2U0](#)

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SDS-PAGE

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