

Product datasheet for TP313835

ATP2B4 (NM_001684) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human ATPase, Ca⁺⁺ transporting, plasma membrane 4 (ATP2B4), transcript variant 2, 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC213835 representing NM_001684
Red=Cloning site Green=Tags(s)

MTNPDRVLPANSMAESREGDFGCTVMELRKLMELRSDALTQINVHYGGVQNLCSRLKTSPEVGLSGNP
 ADLEKRRQVFGHNVIPPKPKTFLELVWEALQDVTLLIIEIAAIIISLVLSFYRPAGEENELCGQVATTP
 DENEAQAGWIEGAAILFSVIIVLVTA FN DWSKEKQFRGLQCRIEQEQKFSIIRNGQLIQLPVAEIVVD
 IAQVKYGDLLPADGILIQGNDLKIDESSLTGESDHVKKSLDKDPMLLSGTHVMEGSGRMVVTAVGVNSQT
 GIILTLLGVNEDDEGEKKKKGKKQGV PENRNKAKTQDGVALEIQPLNSQEGIDNEEKDKKAVKVPKKEKS
 VLQGLTRLAVQIGKAGLLMSALTVFILILYFVIDNFVINRRPWLP ECTPIYIQYFVKFFIIGITVLVVA
 VPEGLPLAVTISLAYSVKMMKDN NLRHLDACETMGNATAICSDKTGTLTMNRMTVVQAYIGGIHYRQI
 PSPDVFLPKVLDLIVNGISINSAYTSKILPPEKEGGLPRQVGNKTECALLGFVTDLKQDYQAVRNEVPEE
 KLYKVYTFNSVRKSMSTVIRNPNGGFRMYSKGASEIILRKCNRILDRKGEAVPFKNKDRDDMVRTVIEPM
 ACDGLRTICIA YRDFDDTEPSWDNENEILTELTCIAVVGIEDPVRPEVPDAIAKCKQAGITVRMVTGDNI
 NTARAIA TKCGILTPGDDFLCLEGKEFNRLIRNEKGEVEQEKLDKIWPKLRVLRSSPTDKHTLVKGIID
 STVGEHRQVVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVMWGRNVYDSI
 SKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLM DTFASLALATEPPTESLLKRRPYGRNKP
 LISRTMMKNILGHAFYQLIVIFILVFAGEKFFDIDSGRKAPLHSPPSQHYTIVFNTFVLMQLFNEINSRK
 IHGEKNVFSGIYRNIFCSVVLGTFICQIFIVEFGGKPF SCTSLSLSQWLWCLFIGIGELLWGQFISAIP
 TRSLKFLKEAGHGTTKEEITKDAEGLDEIDHAEMELRRGQILWFRGLNRIQTQIKVVKAFHSSLHESIQK
 PYNQKSIHFSMTHPEFAIEEELPRTPLLDEEEENPDKASKFGTRVLLLDGEVTPYANTNNNAVDCNQVQ
 LPQSDSSLQSLETSV

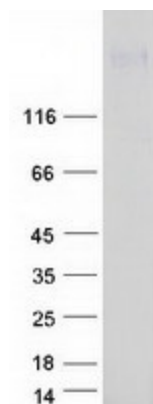
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 133.8 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method



[View online »](#)

Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001675
Locus ID:	493
UniProt ID:	P23634 , A0A024R968
RefSeq Size:	8733
Cytogenetics:	1q32.1
RefSeq ORF:	3615
Synonyms:	ATP2B2; MXRA1; PMCA4; PMCA4b; PMCA4x
Summary:	<p>The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration gradients and play a critical role in intracellular calcium homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at least four separate genes and the diversity of these enzymes is further increased by alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p>
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway

Product images:

Coomassie blue staining of purified ATP2B4 protein (Cat# TP313835). The protein was produced from HEK293T cells transfected with ATP2B4 cDNA clone (Cat# [RC213835]) using MegaTran 2.0 (Cat# [TT210002]).