

ATP6V1C1 mouse monoclonal antibody (hybridoma)

Catalog # H00000528-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant ATP6V1C1.
Immunogen	ATP6V1C1 (NP_001686.1, 1 a.a. ~ 382 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTLDDLVLGLSDELAKLDAFV EGVVKKVAQYMAADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNISEIIAKGVTQI DNDLKSRASAYNNLKGNLQNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVVPKLNHNDWI KQYETLAEMVVPRSSNVLSEDQDSYLCNVTLFRKAVDDFRHKARENKFVRDFQYNEEEMKADK EEMNRLSTDKKKQFGPLVRWLKVNFSFAFIWIVKALRVFVESVLRVGLPVNFMQAMLLQPNKKT LKKLREVLHELKHLDDSSAAAIIDAPMDIPGLNLSQQEYYPVYKIDCNLLEFK
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ATP6V1C1

Entrez GeneID [528](#)

GeneBank Accession# [NM_001695.3](#)

Protein Accession# [NP_001686.1](#)

Gene Name ATP6V1C1

Gene Alias ATP6C, ATP6D, FLJ20057, VATC, Vma5

Gene Description ATPase, H⁺ transporting, lysosomal 42kDa, V1 subunit C1

Omim ID [603097](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This gene is one of two genes that encode the V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases. Previously, this gene was designated ATP6D. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) 42kD|ATPase, H⁺ transporting, lysosomal 42kD, V1 subunit C, isoform 1|ATPase, H⁺ transporting, lysosomal 42kDa, V1 subunit C, isoform 1|H⁺-transporting two-sector ATPase, subunit C|H⁺-ATPase C s

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)

Disease

- [Head and Neck Neoplasms](#)

- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Tobacco Use Disorder](#)