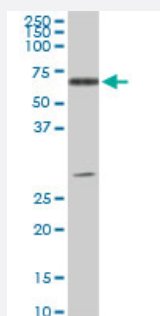


ATP6AP1 monoclonal antibody (M01), clone 3A2

Catalog # H00000537-M01

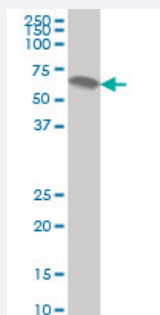
Size 100 ug

Applications



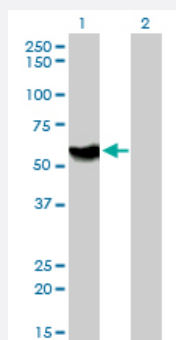
Western Blot (Cell lysate)

ATP6AP1 monoclonal antibody (M01), clone 3A2. Western Blot analysis of ATP6AP1 expression in PC-12 (Cat # L012V1).



Western Blot (Cell lysate)

ATP6AP1 monoclonal antibody (M01), clone 3A2 Western Blot analysis of ATP6AP1 expression in HeLa (Cat # L013V1).



Western Blot (Transfected lysate)

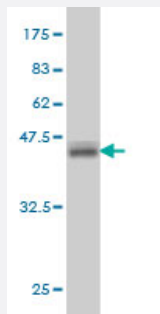
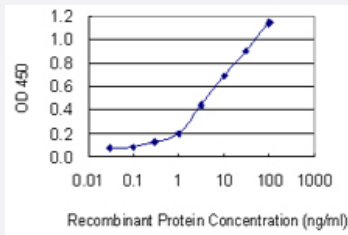
Western Blot analysis of ATP6AP1 expression in transfected 293T cell line by ATP6AP1 monoclonal antibody (M01), clone 3A2.

Lane 1: ATP6AP1 transfected lysate(52 KDa).

Lane 2: Non-transfected lysate.

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6AP1 is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ATP6AP1.
Immunogen	ATP6AP1 (NP_001174, 51 a.a. ~ 150 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SSDRDLWAPAADTHEGHITSDLQLSTYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDS AFSNLENALDLAPSSLVLPVDWYAVSTLTYYLQE
Host	Mouse
Reactivity	Human, Rat
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ATP6AP1 monoclonal antibody (M01), clone 3A2. Western Blot analysis of ATP6AP1 expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ATP6AP1 monoclonal antibody (M01), clone 3A2 Western Blot analysis of ATP6AP1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ATP6AP1 expression in transfected 293T cell line by ATP6AP1 monoclonal antibody (M01), clone 3A2.

Lane 1: ATP6AP1 transfected lysate(52 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6AP1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ATP6AP1

Entrez GeneID [537](#)

GeneBank Accession# [NM_001183](#)

Protein Accession# [NP_001174](#)

Gene Name ATP6AP1

Gene Alias 16A, ATP6IP1, ATP6S1, Ac45, CF2, MGC129781, VATPS1, XAP-3, XAP3

Gene Description ATPase, H⁺ transporting, lysosomal accessory protein 1

Omim ID [300197](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a component of a multisubunit enzyme (1 mDa MW) that mediates acidification of eukaryotic intracellular organelles. Vacuolar ATPase (V-ATPase) is comprised of a cytosolic V1 (site of the ATP catalytic site) and a transmembrane V0 domain. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. The encoded protein of this gene is approximately 45 kD and may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), subunit 1|ATPase, H⁺ transporting, lysosomal interacting protein 1|H-ATPase subunit|OTTHUMP00000032115|V-ATPase S1 accessory protein

Publication Reference

- [Frequent mutations of genes encoding vacuolar H⁺ -ATPase components in granular cell tumors.](#)

Sekimizu M, Yoshida A, Mitani S, Asano N, Hirata M, Kubo T, Yamazaki F, Sakamoto H, Kato M, Makise N, Mori T, Yamazaki N, Sekine S, Oda I, Watanabe SI, Hiraga H, Yonemoto T, Kawamoto T, Naka N, Funauchi Y, Nishida Y, Honoki K, Kawano H, Tsuchiya H, Kunisada T, Matsuda K, Inagaki K, Kawai A, Ichikawa H.

Genes, Chromosomes & Cancer 2019 Jun; 58(6):373.

Application: WB, Human, Granular cell tumors, SYO-1 cells

- [Vacuolar H⁺-ATPase subunit Voa1 and Voa2 cooperatively regulate secretory vesicle acidification, transmitter uptake and storage.](#)

Saw NM, Kang SY, Parsaud L, Han GA, Jiang T, Grzegorzczak K, Surkont M, Sun-Wada GH, Wada Y, Li L, Sugita S.

Molecular Biology of the Cell 2011 Sep; 22(18):3394.

Application: WB, Rat, PC-12 cells

Pathway

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

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)