

ATP6V0D1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant ATP6V0D1.****Catalog # AT1240a****Specification**

ATP6V0D1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	P61421
Other Accession	NM_004691
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	40329

ATP6V0D1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 9114**Other Names**

V-type proton ATPase subunit d 1, V-ATPase subunit d 1, 32 kDa accessory protein, V-ATPase 40 kDa accessory protein, V-ATPase AC39 subunit, p39, Vacuolar proton pump subunit d 1, ATP6V0D1, ATP6D, VPATPD

Target/Specificity

ATP6V0D1 (NP_004682, 238 a.a. ~ 308 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

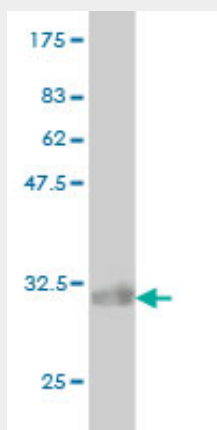
ATP6V0D1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP6V0D1 Antibody (monoclonal) (M01) - Protocols

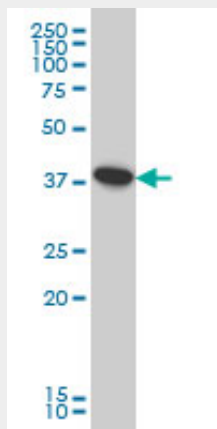
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

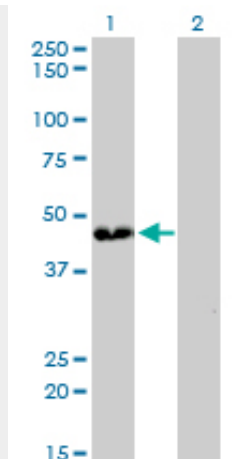
ATP6V0D1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.55 KDa) .



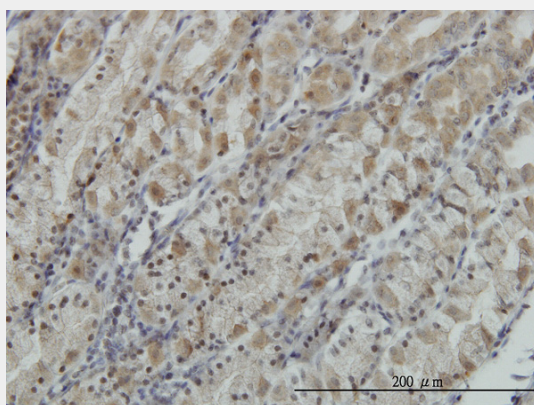
ATP6V0D1 monoclonal antibody (M01), clone 2G12 Western Blot analysis of ATP6V0D1 expression in HeLa (Cat # AT1240a)



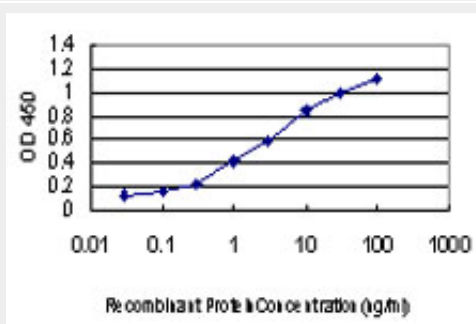
Western Blot analysis of ATP6V0D1 expression in transfected 293T cell line by ATP6V0D1 monoclonal antibody (M01), clone 2G12.

Lane 1: ATP6V0D1 transfected lysate(40.3 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to ATP6V0D1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 0.5 ug/ml]



Detection limit for recombinant GST tagged ATP6V0D1 is approximately 0.1ng/ml as a capture antibody.

ATP6V0D1 Antibody (monoclonal) (M01) - Background

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle 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 encoded protein is known as the D subunit and is found ubiquitously.

ATP6V0D1 Antibody (monoclonal) (M01) - References

1. Proteomic analysis of endosomes from genetically modified p14/MP1 mouse embryonic fibroblasts. Stasyk T, Holzmann J, Stumberger S, Ebner HL, Hess MW, Bonn GK, Mechtler K, Huber LA. *PROTEOMICS* (2010) DOI: 10.1002/ pmic.201000258