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ATP6V0D1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ATP6V0D1.
Catalog # AT1240a

Product Information

Application	WB, IHC, E
Primary Accession	P61421
Other Accession	NM_004691
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2G12
Calculated MW	40329

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.

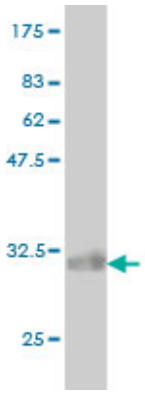
Background

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.

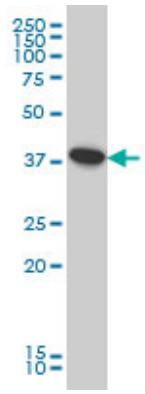
References

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

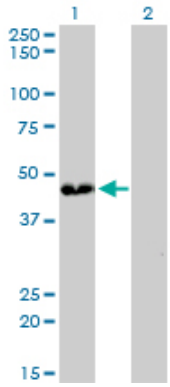
Images



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

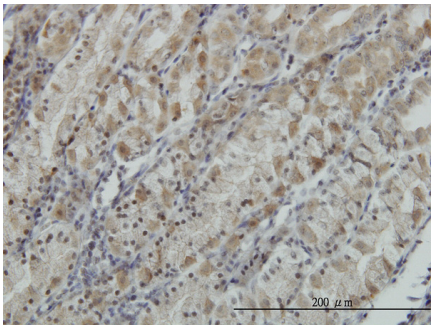


ATP6V0D1 monoclonal antibody (M01), clone 2G12
Western Blot analysis of ATP6V0D1 expression in HeLa (
(Cat # AT1240a)

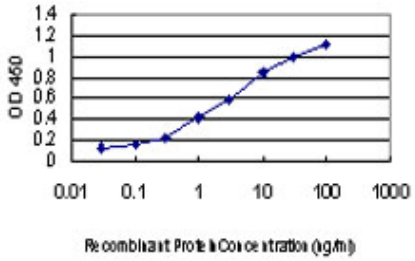


Western Blot analysis of ATP6V0D1 expression in transfected 293T cell line by ATP6V0D1 monoclonal antibody (M01), clone 2G12.

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.