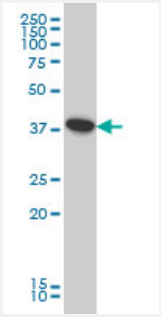
ATP6V0D1 monoclonal antibody (M01), clone 2G12

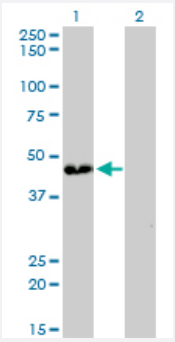
Catalog # H00009114-M01 Size 100 ug

Applications



Western Blot (Cell lysate)

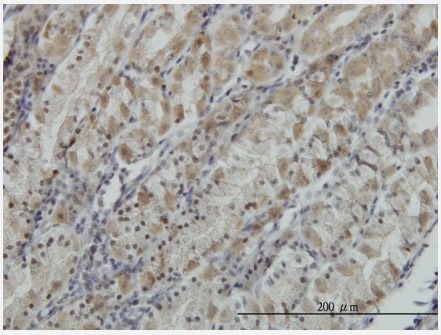
ATP6V0D1 monoclonal antibody (M01), clone 2G12 Western Blot analysis of ATP6V0D1 expression in HeLa (Cat # L013V1).



Western Blot (Transfected lysate)

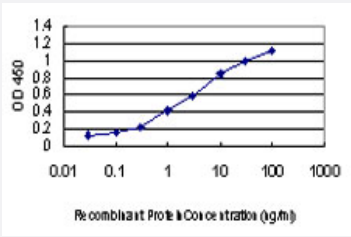
Western Blot analysis of ATP6V0D1 expression in transfected 293T cell line by ATP6V0D1 monoclonal antibody (M01), clone 2G12.

Lane 1: ATP6V0D1 transfected lysate(40.3 KDa).
Lane 2: Non-transfected lysate.



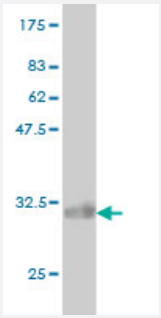
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (33.55 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ATP6V0D1.
Immunogen	ATP6V0D1 (NP_004682, 238 a.a. ~ 308 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLEDRFFEHEVKLNKLAFLN
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.55 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)

  ATP6V0D1 monoclonal antibody (M01), clone 2G12 Western Blot analysis of ATP6V0D1 expression in HeLa (Cat # L013V1).

  Protocol Download

- Western Blot (Transfected lysate)

  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.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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

  Protocol Download

- ELISA

Gene Info — ATP6V0D1

Entrez GeneID	9114
GeneBank Accession#	NM_004691
Protein Accession#	NP_004682
Gene Name	ATP6V0D1
Gene Alias	ATP6D, ATP6DV, P39, VATX, VMA6, VPATPD
Gene Description	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1

Omim ID	607028
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	ATPase, H+ transporting, lysosomal (vacuolar proton pump), member D|ATPase, H+ transporting, lysosomal 38kD, V0 subunit d|ATPase, H+ transporting, lysosomal, V0 subunit d1|H(+)-transporting two-sector ATPase, subunit D|V-ATPase 40 KDa accessory protein|V-

Publication Reference

- 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 Nov; 10(22):4117.

  Application: WB, Mouse, MEF cells

Pathway

- Epithelial cell signaling in Helicobacter pylori infection
- Lysosome
- Metabolic pathways
- Oxidative phosphorylation
- Vibrio cholerae infection

Disease

- Cardiovascular Diseases
- Diabetes Mellitus

- Edema