



V-ATPase H Monoclonal Antibody

Catalog No	YP-mAb-16514
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ATP6V1H
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP6V1H. AA range:341-390
Specificity	V-ATPase H Monoclonal Antibody detects endogenous levels of V-ATPase H protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Atp6v1h;ATPase;H ⁺ transporting;lysosomal 5/57kDa;V1 subunit H;CGI 11; CGI11;EC 3.6.3.14;MSTP42;NBP1;Nef binding protein 1;Nef-binding protein 1; Protein VMA13 homolog;SFD;SFDalpha;SFDbeta;V ATPase subunit H;V-ATPase 5/57 kDa subunits;V-ATPase subunit H;V-type proton ATPase subunit H;Vacuolar ATP synthase subunit H;Vacuolar proton pump subunit H;Vacuolar proton pump subunit SFD;VATH_HUMAN;VMA13;V-ATPase H;CGI-11;V-ATPase 50/57 kDa subunits
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	Cytoplasmic vesicle, clathrin-coated vesicle membrane ; Peripheral membrane protein .
Tissue Specificity	Widely expressed.
Function	function:Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit H activates the ATPase activity of the enzyme and couples ATPase activity to proton flow. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system (By similarity). Involved



in the endocytosis mediated by clathrin-coated pits, required for the formation of endosomes.,similarity:Belongs to the V-ATPase H subunit family.,subunit:V-ATPase is an heteromultimeric enzyme composed of a peripheral catalytic V1 complex (components A to H) attached to an integral membrane V0 proton pore complex (components: a, c, c', c" and d). Interacts with HIV-1 Nef protein and AP2M1.,tissue specificity:Widely expressed.,

Background

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular organelles. V-ATPase-dependent organelle acidification is necessary for multiple processes including protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. The encoded protein is the regulatory H subunit of the V1 domain of V-ATPase, which is required for catalysis of ATP but not the assembly of V-ATPase. Decreased expression of this gene may play a role in the development of type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using V-ATPase H Monoclonal Antibody