



V-ATPase D1 Monoclonal Antibody

Catalog No	YP-mAb-16516
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ATP6V0D1
Immunogen	The antiserum was produced against synthesized peptide derived from human V-ATPase D1. AA range:221-270
Specificity	V-ATPase D1 Monoclonal Antibody detects endogenous levels of V-ATPase D1 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	32 kDa accessory protein;ATP6D;ATP6DV;ATP6VD1;ATPase H ⁺ transporting lysosomal (vacuolar proton pump) member D;ATPase H ⁺ transporting lysosomal 38kD V subunit d;ATPase H ⁺ transporting lysosomal 38kDa V subunit d1;ATPase H ⁺ transporting lysosomal V subunit d1;H(+) transporting two sector ATPase subunit D;p39;V ATPase 4 kDa accessory protein;V ATPase AC39 subunit;V ATPase subunit d 1;V ATPase subunit D;V-ATPase 4 kDa accessory protein;V-ATPase AC39 subunit;V-ATPase subunit d 1;V-type proton ATPase subunit d 1;VAD1_HUMAN;Vacuolar ATP synthase subunit d 1;Vacuolar proton pump subunit d 1;VATX;VMA 6;VMA6;VPATPD;V-ATPase D1;ATP6V0D1;V-ATPase 40 kDa accessory protein
Observed Band	40kD
Calculated Molecular Weight	40kD
Cell Pathway	Membrane ; Peripheral membrane protein ; Cytoplasmic side . Lysosome membrane ; Peripheral membrane protein . Cytoplasmic vesicle, clathrin-coated vesicle membrane ; Peripheral membrane protein . Localizes to centrosome and the base of the cilium. .
Tissue Specificity	Ubiquitous.



Function

function: Subunit of the integral membrane V0 complex of vacuolar ATPase. 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. May play a role in coupling of proton transport and ATP hydrolysis., similarity: Belongs to the V-ATPase V0D/AC39 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)., tissue specificity: Ubiquitous.,

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. [pro

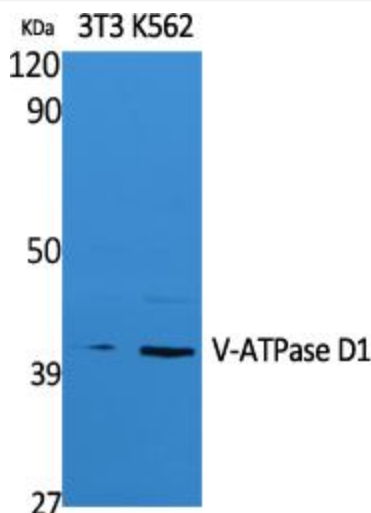
matters needing attention

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 D1 Monoclonal Antibody