Product Name: ATP6V0D1 Rabbit Monoclonal Antibody
Catalog #: AMRe01699
For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.3mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200,IP 1:20-1:50
Molecular Weight	Calculated MW: 40 kDa; Observed MW: 40 kDa

Antigen Information

Gene Name	ATP6V0D1
Alternative Names	P39; VATX; VMA6; ATP6D; ATP6DV; VPATPD
Gene ID	9114
SwissProt ID	P61421
Immunogen	Recombinant protein of human ATP6V0D1

Background

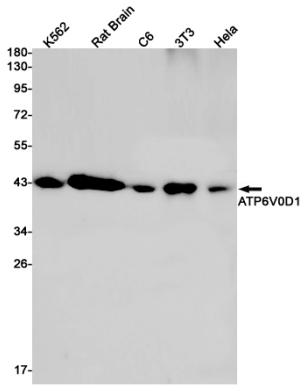
Subunit of the integral membrane V0 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the

vacuolar system. May play a role in coupling of proton transport and ATP hydrolysis . May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium . In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe2+ prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633).

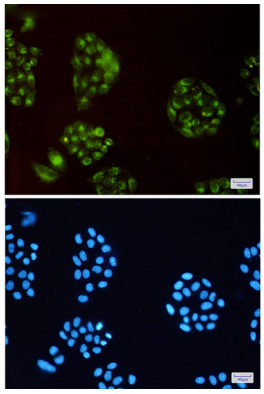
Research Area

Signal Transduction

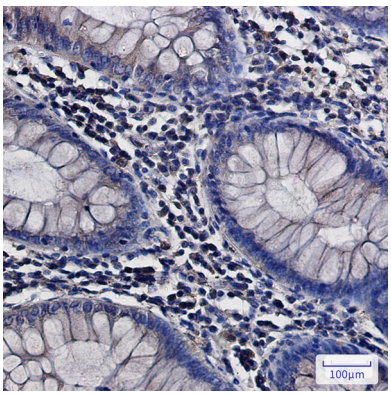
Image Data



Western blot analysis of ATP6V0D1 in K562, rat Brain, C6, 3T3, Hela lysates using ATP6V0D1 antibody.



Immunocytochemistry analysis of ATP6V0D1(green) in Hela using ATP6V0D1 antibody,and DAPI(blue)



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using ATP6V0D1 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.