For Research Use Only

ATP6V1D Polyclonal antibody

Catalog Number:14920-1-AP 6 Publications

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Basic Information

Catalog Number:
14920-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6737

GenBank Accession Number:
BC001411

GeneID (NCBI):
51382

UNIPROT ID:
Q9Y5K8

Full Name:
ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D

Calculated MW:
28 kDa

Observed MW:
28 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2400
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
FC, IHC, IP, WB,ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human brain tissue, mouse skeletal muscle tissue, mouse lung tissue, rat lung tissue

IP : mouse lung tissue,

IHC : human lung cancer tissue,

Background Information

ATP6V1D is also named as ATP6M, VATD(V-type proton ATPase subunit D) and belongs to the V-ATPase D subunit family. ATP6V1D gene has been under strong negative selection during evolution and is highly conserved among mammals, flies, worms, yeast, plants, and bacteria(PMID:11435709). It 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.

Notable Publications

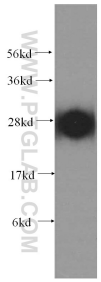
Author	Pubmed ID	Journal	Application
Jasjot Singh	36266287	Nat Commun	WB
Enrico Castroflorio	33340069	Cell Mol Life Sci	WB
Yuyang Wang	38199335	J Ethnopharmacol	WB

Storage

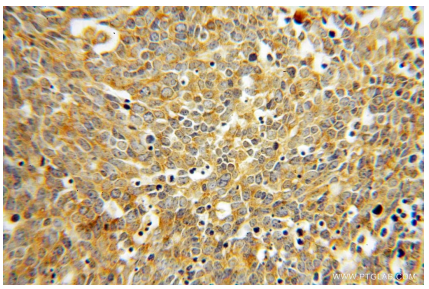
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

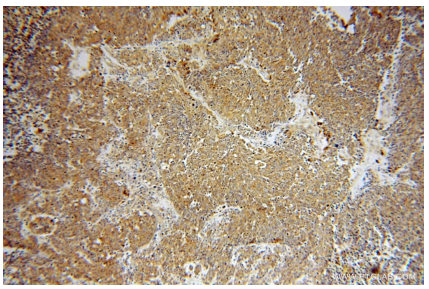
Selected Validation Data



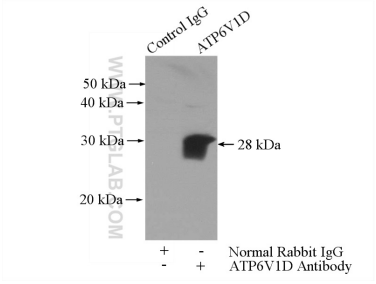
human brain tissue were subjected to SDS PAGE followed by western blot with 14920-1-AP (ATP6V1D antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



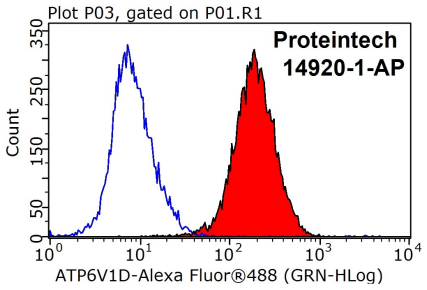
Immunohistochemical analysis of paraffin-embedded human lung cancer using 14920-1-AP (ATP6V1D antibody) at dilution of 1:100 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer using 14920-1-AP (ATP6V1D antibody) at dilution of 1:100 (under 10x lens).



IP result of anti-ATP6V1D (IP:14920-1-AP, 4ug; Detection:14920-1-AP 1:500) with mouse lung tissue lysate 4000ug.



1X10^6 HeLa cells were stained with 0.2ug ATP6V1D antibody (14920-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.