

For Research Use Only

ATP7A-Specific Polyclonal antibody, PBS Only

Catalog Number:55375-1-PBS



Basic Information

Catalog Number:

55375-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000052

GeneID (NCBI):

538

UNIPROT ID:

Q04656

Full Name:

ATPase, Cu⁺⁺ transporting, alpha

polypeptide

Calculated MW:

165 kDa

Observed MW:

170 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse

Background Information

ATPase copper transporting alpha(ATP7A) is a type of transmembrane P-type ATPase for copper transport. ATP7A and ATP7B are homologous genes responsible for copper transport across cell membranes. ATP7A transports copper ions from the Golgi membrane to copper-dependent enzymes (such as dopamine β -hydroxylase) in the secretory pathway. When copper ion concentrations rise, ATP7A relocalizes from the Golgi apparatus to the plasma membrane, promoting copper efflux and thereby protecting cells from copper toxicity. Mutations in ATP7A are associated with Menkes disease (MNK)(PMID: 28389643, 30341172).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

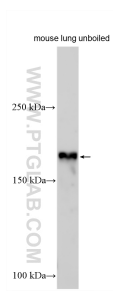
T: 4006900926

E: Proteintech-CN@ptglab.com

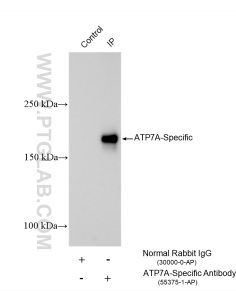
W: ptgcn.com

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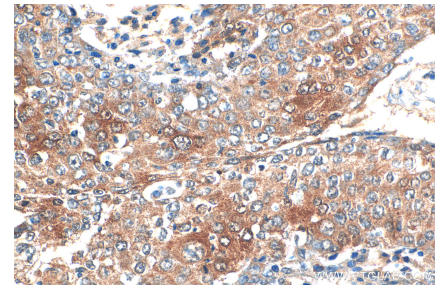
Selected Validation Data



Unboiled mouse lung tissue were subjected to SDS PAGE followed by western blot with 55375-1-AP (ATP7A-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 55375-1-PBS in a different storage buffer formulation.



IP result of anti-ATP7A-Specific (IP:55375-1-AP, 4ug; Detection:55375-1-AP 1:500) with mouse lung tissue lysate 1520 ug. This data was developed using the same antibody clone with 55375-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 55375-1-AP (ATP7A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 55375-1-PBS in a different storage buffer formulation.