

For Research Use Only

# ATX3,ATXN3 Polyclonal antibody

Catalog Number:13505-1-AP

Featured Product

24 Publications



## Basic Information

**Catalog Number:**

13505-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4341

**GenBank Accession Number:**

BC033711

**GeneID (NCBI):**

4287

**UNIPROT ID:**

P54252

**Full Name:**

ataxin 3

**Calculated MW:**

370 aa, 43 kDa

**Observed MW:**

35-42 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:20-1:200

## Applications

**Tested Applications:**

WB, IP, IHC, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, pig, caenorhabditis elegans

**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 :** Neuro-2a cells, mouse heart tissue, mouse placenta tissue, HEK-293 cells, mouse brain tissue, rat brain tissue

**IHC :** human pancreas cancer tissue,

## Background Information

ATXN3, which has deubiquitinase activity and act as a component of the ubiquitin proteasome system, plays a role in transcriptional regulation and neuroprotection. ATXN3 interacts with RAD23, HHR23A and HHR23B, involves in the pathology of MJD. ATXN3 is a mixed-linkage, chain-editing enzyme and that the UIM region of ATXN3 regulates its substrate specificity. Contains an N-terminal deubiquitinating domain, called the Josephin domain, followed by 2 ubiquitin-interacting motifs (UIMs) and a polyQ tract near the C terminus. ATXN3 can be phosphorylated in a protein casein kinase-2-dependent manner, thus the MW would be larger than the predicted one.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB
Pawel M Switonski	25301414	Neurobiol Dis	WB
Qian Feng	29802126	J Immunol	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:

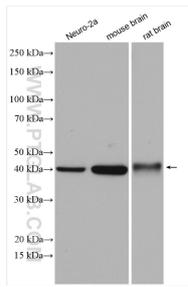
T: 4006900926

E: Proteintech-CN@ptglab.com

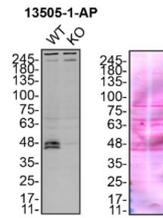
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

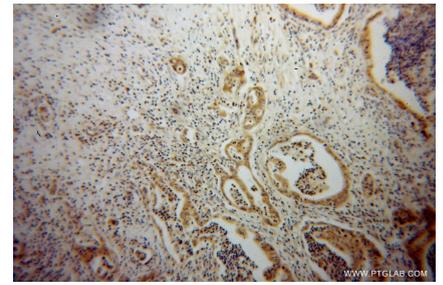
## Selected Validation Data



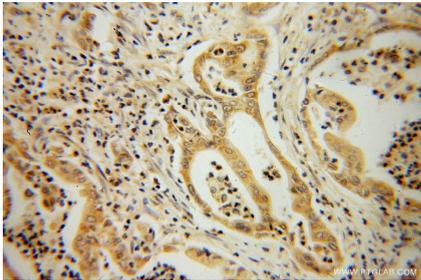
Various lysates were subjected to SDS PAGE followed by western blot with 13505-1-AP (ATX3, ATXN3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



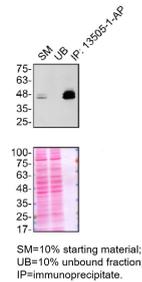
HEK-293 (WT and ATXN3 KO) lysates prepared with RIPA buffer, 30  $\mu$ g protein loaded. 13505-1-AP incubated at 1:1000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 13505-1-AP (ATX3, ATXN3 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 13505-1-AP (ATX3, ATXN3 antibody) at dilution of 1:100 (under 40x lens).



HEK-293 lysates prepared and IP of ATXN3 performed using 1.0  $\mu$ g of 13505-1-AP coupled to protein A- Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.