

For Research Use Only

# ATX3,ATXN3 Polyclonal antibody



Catalog Number: 13505-1-AP

Featured Product

8 Publications

## Basic Information

### Catalog Number:

13505-1-AP

### Size:

150UL, Concentration: 367 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4341

### GenBank Accession Number:

BC033711

### GeneID (NCBI):

4287

### 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:

IHC, WB, ELISA

### Cited Applications:

IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

Caenorhabditis elegans, human, 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 : Neuro-2a cells, HEK-293 cells, mouse brain tissue, mouse liver tissue, mouse heart tissue, mouse placenta 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
Pawel M Switonski	25301414	Neurobiol Dis	WB
Rongxuan Zhu	31253779	Nat Commun	WB
Xiaofei Zhang	28190767	Mol Cell	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

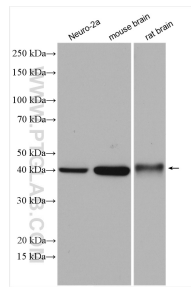
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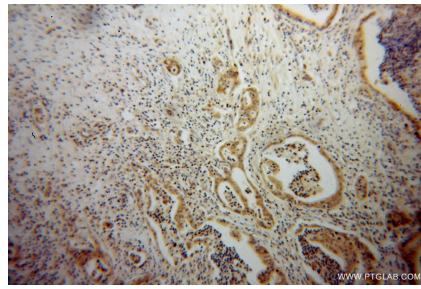
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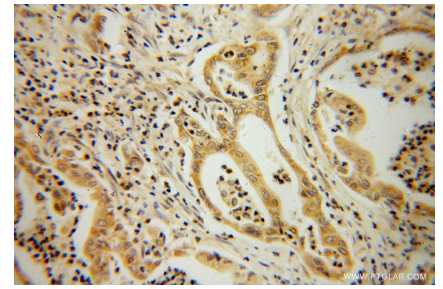
## Selected Validation Data



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.



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).