For Research Use Only

ATX3,ATXN3 Polyclonal antibody

Catalog Number:13505-1-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
13505-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop;

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, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

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

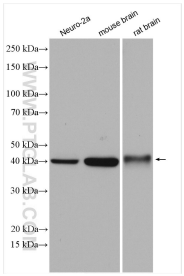
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

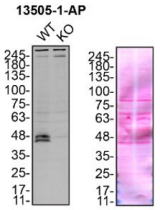
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

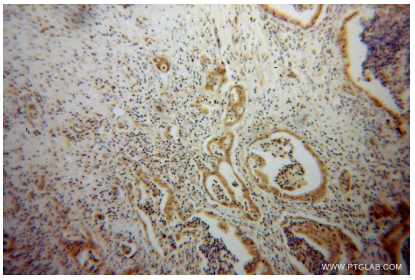
Selected Validation Data



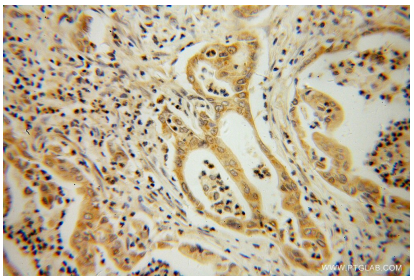
Various lysates were subjected to SDS PAGE followed by western blot with 13505-1-AP (ATX3,ATXN3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



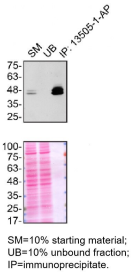
HEK-293 (WT and ATXN3 KO) lysates prepared with RIPA buffer, 30 µg protein loaded. 13505-1-AP incubated at 1:1000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve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