ATX3,ATXN3 Polyclonal antibody

Catalog Number:13505-1-AP

Featured Product   **24 Publications**

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Basic Information

Catalog Number:
13505-1-AP

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

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℃. 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
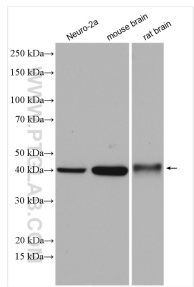
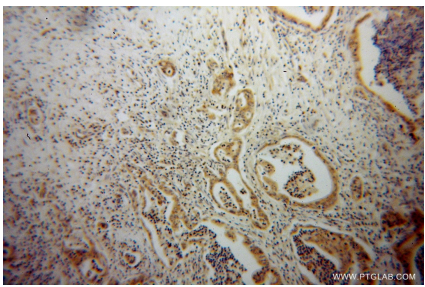***** 20ul sizes contain 0.1% BSA**
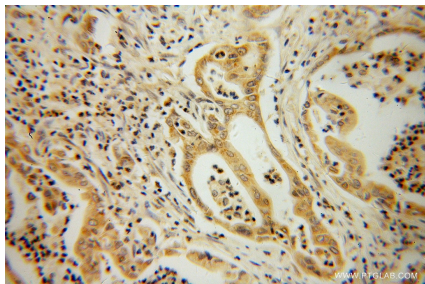
Selected Validation Data

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.
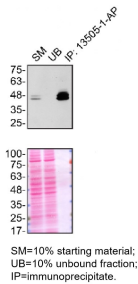

HEK-293 (WT and ATXN3 KO) lysates prepared with RIPA buffer, 30 μg protein loaded. 13505-1-AP incubated at 1:1000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve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