

For Research Use Only

# Ataxin 2 Recombinant antibody

Catalog Number: 80919-2-RR



## Basic Information

Catalog Number:

80919-2-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16470

GenBank Accession Number:

BC114546

GeneID (NCBI):

6311

UNIPROT ID:

Q99700

Full Name:

ataxin 2

Calculated MW:

1313 aa, 140 kDa

Observed MW:

140-150 kDa

Purification Method:

Protein A purification

CloneNo.:

250888E4

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC: 1:250-1:1000

IF-P: 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Species Specificity:

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: HEK-293 cells, HeLa cells, NIH/3T3 cells, Neuro-2a cells

IP: NIH/3T3 cells,

IHC: mouse brain tissue,

IF-P: mouse brain tissue,

## Background Information

ATXN2 contains a repeat structure with 22 or 23 triplets coding for glutamine and the (CAG)<sub>8</sub>CAA(CAG)<sub>4</sub>CAA(CAG)<sub>8</sub> sequence; expansion of this domain to a size ≥34 triplets with a pure CAG sequence primarily causes autosomal dominant SCA2 [PMID:18418684], while ATXN2 expansions with CAA interruptions were observed as the cause of Levo-dopa responsive Parkinson's disease [PMID:10668726]. ATXN2 expansions associated with ALS were reported to be interrupted by at least one CAA triplet [PMID:21537950]

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

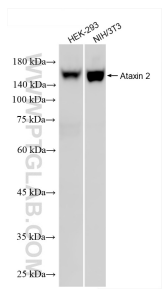
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

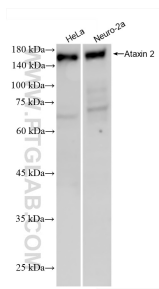
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

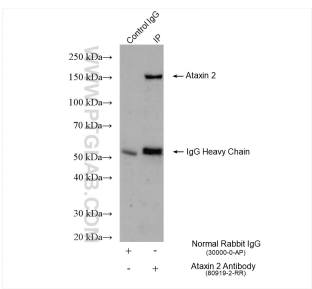
Selected Validation Data



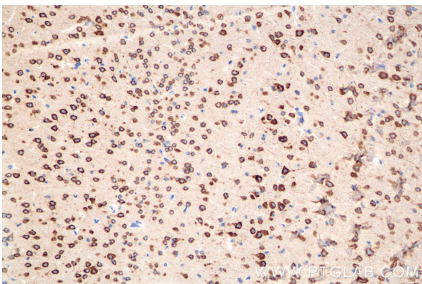
Various lysates were subjected to SDS PAGE followed by western blot with 80919-2-RR (Ataxin 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



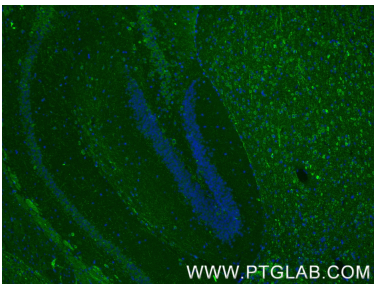
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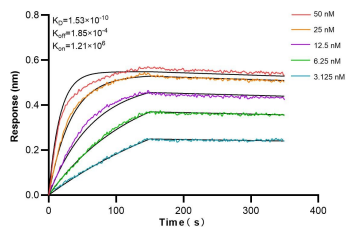
IP result of anti-Ataxin 2 (IP:80919-2-RR, 4ug; Detection:80919-2-RR 1:1000) with NIH/3T3 cells lysate 1200 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80919-2-RR (Ataxin 2 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Ataxin 2 antibody (80919-2-RR, Clone: 250888E4) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 80919-2-RR against Human Ataxin 2 were performed. The affinity constant is 0.153 nM.