

For Research Use Only

# Ataxin 2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 80919-2-PBS



## Basic Information

<b>Catalog Number:</b> 80919-2-PBS	<b>GenBank Accession Number:</b> BC114546	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6311	<b>CloneNo.:</b> 250888E4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99700	
<b>Isotype:</b> IgG	<b>Full Name:</b> ataxin 2	
<b>Immunogen Catalog Number:</b> AG16470	<b>Calculated MW:</b> 1313 aa, 140 kDa	
	<b>Observed MW:</b> 140-150 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, IP, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse

## Product Information

80919-2-PBS targets Ataxin 2 as part of a matched antibody pair:

MP02584-1: 80919-2-PBS capture and 80919-4-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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

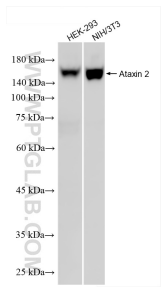
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

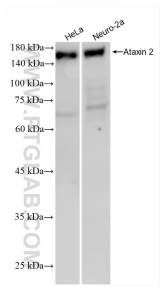
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

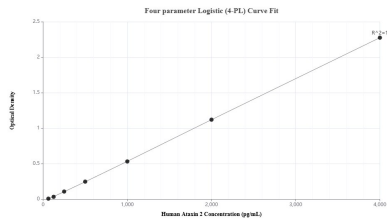
Selected Validation Data



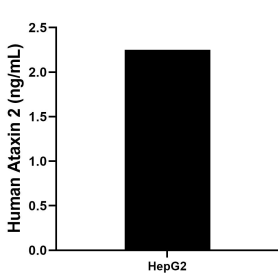
Various lysates were subjected to SDS PAGE followed by western blot with 80919-2-RR (Ataxin 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80919-2-PBS in a different storage buffer formulation.



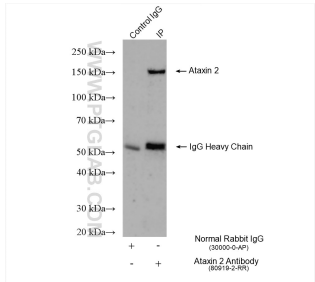
Various lysates were subjected to SDS PAGE followed by western blot with 80919-2-RR (Ataxin 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80919-2-PBS in a different storage buffer formulation.



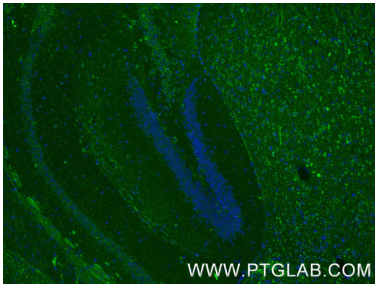
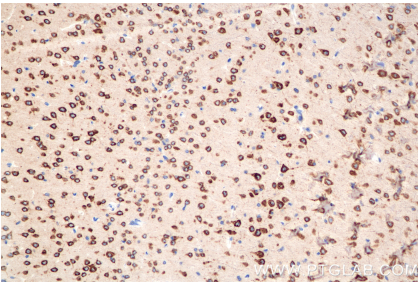
Sandwich ELISA standard curve of MP02584-1, Human Ataxin 2 Recombinant Matched Antibody Pair - PBS only. 80919-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag16470. 80919-4-PBS was HRP conjugated as the detection antibody. Range: 62.5-4000 pg/mL



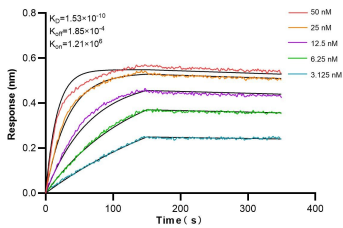
The mean Ataxin 2 concentration was determined to be 2.25 ng/mL in HepG2 cell extract based on a 1.3 mg/mL extract load.



IP result of anti-Ataxin 2 (IP:80919-2-RR, 4ug; Detection:80919-2-RR 1:1000) with NIH/3T3 cells lysate 1200 ug. This data was developed using the same antibody clone with 80919-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80919-2-PBS in a different storage buffer formulation.



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