

For Research Use Only

Ataxin 2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 80919-2-PBS



Basic Information

Catalog Number: 80919-2-PBS	GenBank Accession Number: BC114546	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 6311	CloneNo.: 250888E4
Source: Rabbit	UNIPROT ID: Q99700	
Isotype: IgG	Full Name: ataxin 2	
Immunogen Catalog Number: AG16470	Calculated MW: 1313 aa, 140 kDa	
	Observed MW: 140-150 kDa	

Applications

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

Species Specificity:
human, mouse

Background Information

ATXN2 contains a repeat structure with 22 or 23 triplets coding for glutamine and the (CAG)₈CAA(CAG)₄CAA(CAG)₈ 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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

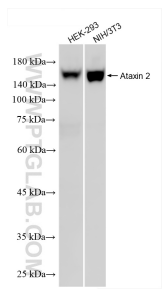
T: 4006900926

E: Proteintech-CN@ptglab.com

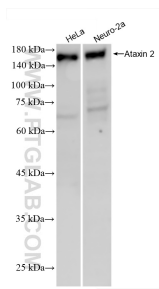
W: ptgcn.com

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

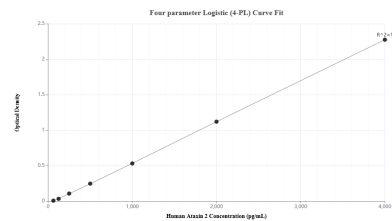
Selected Validation Data



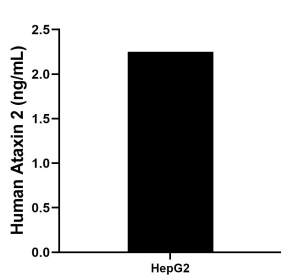
Various lysates were subjected to SDS PAGE followed by western blot with 80919-2-RR (Ataxin 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80919-2-PBS in a different storage buffer formulation.



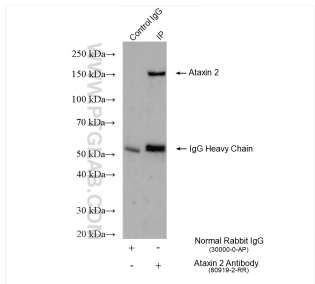
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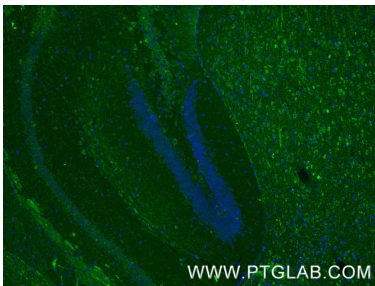
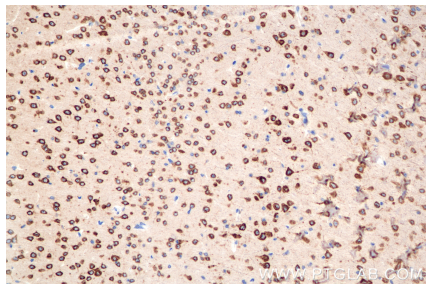
Sandwich ELISA standard curve of MP02584-1, Human Ataxin 2 Recombinant Matched Antibody Pair - PBS only. 80919-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag16470. 80919-4-PBS was HRP conjugated as the detection antibody. Range: 62.5-4000 pg/mL



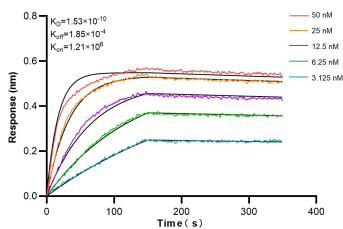
The mean Ataxin 2 concentration was determined to be 2.25 ng/mL in HepG2 cell extract based on a 1.3 mg/mL extract load.



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.