

Ataxin 2 Monoclonal antibody

Catalog Number: 68316-1-Ig

Basic Information

Catalog Number:

68316-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgM

Immunogen Catalog Number:

AG17402

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:

Caprylic acid/ammonium sulfate precipitation

CloneNo.:

1E8A2

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:250-1:1000

IF-P 1:200-1:800

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat

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: LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

IHC: rat brain tissue,

IF-P: rat brain tissue,

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:

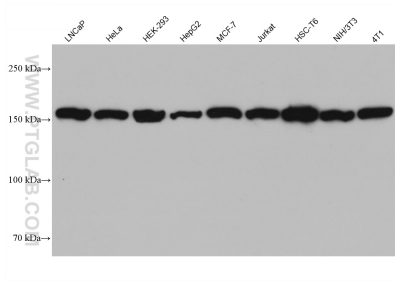
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

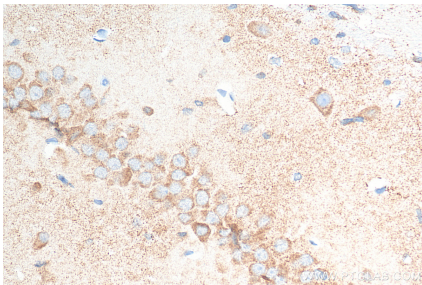
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

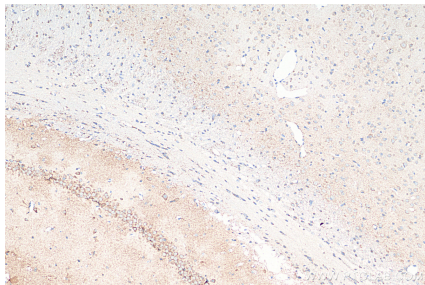
Selected Validation Data



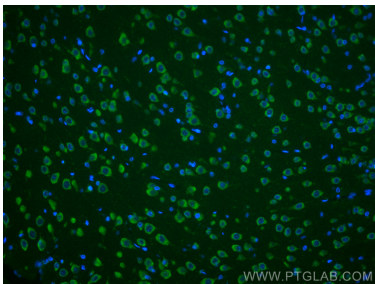
Various lysates were subjected to SDS PAGE followed by western blot with 68316-1-Ig (Ataxin 2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



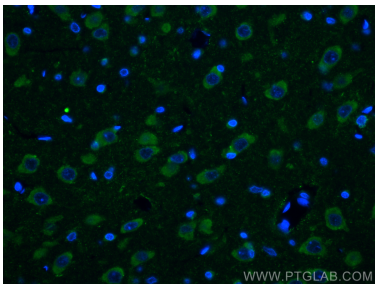
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68316-1-Ig (Ataxin 2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68316-1-Ig (Ataxin 2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using Ataxin 2 antibody (68316-1-Ig, Clone: 1E8A2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using Ataxin 2 antibody (68316-1-Ig, Clone: 1E8A2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).