

Datasheet for ABIN3043796
anti-Ataxin 3 antibody (C-Term)



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2 Images

Overview

Quantity:	100 µg
Target:	Ataxin 3 (ATXN3)
Binding Specificity:	AA 226-254, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ataxin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Ataxin-3(ATXN3) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Ataxin 3 (226-254aa EEDLQRALALSRQEIDMEDEEADLRRAIQ), different from the related mouse and rat sequences by two amino acids.
Sequence:	EEDLQRALAL SRQEIDMEDE EADLRRAIQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Ataxin-3(ATXN3) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: ataxin 3

Product Details

Protein Name: Ataxin-3

Purification: Immunogen affinity purified.

Target Details

Target: Ataxin 3 (ATXN3)

Alternative Name: ATXN3 ([ATXN3 Products](#))

Background: ATXN3 (Ataxin 3), also known as AT3, MJD GENE, MJD1, SCA3 GENE, ATX3, JOS, Spinocerebellar ataxia-3, Machado-Joseph disease protein 1, is a protein that in humans is encoded by the ATXN3 gene. ATXN3 ranges in size from 360 to 374 amino acids. Using Northern blot analysis showed that ATXN3 mRNA was ubiquitously expressed in human tissues. They detected at least 4 ATXN3 transcripts of 1.4, 1.8, 4.5, and 7.5 kb and suggested that the different mRNA species probably result from differential splicing and polyadenylation. Machado-Joseph disease, also known as spinocerebellar ataxia-3, is an autosomal dominant neurologic disorder. The protein encoded by the ATXN3 gene contains (CAG)*n* repeats in the coding region, and the expansion of these repeats from the normal 13-36 to 68-79 is the cause of Machado-Joseph disease. There is an inverse correlation between the age of onset and CAG repeat numbers. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. Ataxin-3 interacted with 2 human homologs of the yeast DNA repair protein RAD23, HHR23A (RAD23A) and HHR23B (RAD23B). Both normal and mutant ataxin-3 proteins interacted with the ubiquitin-like domain at the N terminus of the HHR23 proteins, which is a motif important for nucleotide excision repair. However, in HEK 293 cells, HHR23A was recruited to intranuclear inclusions formed by the mutant ataxin-3 through its interaction with ataxin-3.

Synonyms: AT3 antibody|Ataxin 3 antibody|Ataxin-3 antibody|ATX3 antibody|ATX3_HUMAN antibody|ATXN3 antibody|EC 3.4.22. antibody|JOS antibody|Josephin antibody|Machado Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia 3, autosomal dominant, ataxin 3) antibody|Machado Joseph disease antibody|Machado Joseph disease protein 1 antibody|Machado-Joseph disease protein 1 antibody|Machado-Joseph disease protein 1 homolog antibody|MJD antibody|MJD gene antibody|MJD1 antibody|Olivopontocerebellar ataxia 3 antibody| OTTHUMP00000221583 antibody|OTTHUMP00000221585 antibody|OTTHUMP00000221586 antibody| OTTHUMP00000221587 antibody|OTTHUMP00000231995 antibody|OTTHUMP00000231997 antibody|Rsca3 antibody|SCA3 antibody|SCA3 gene antibody|Spinocerebellar ataxia type 3 protein antibody

Target Details

Gene ID: 4287

UniProt: [P54252](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

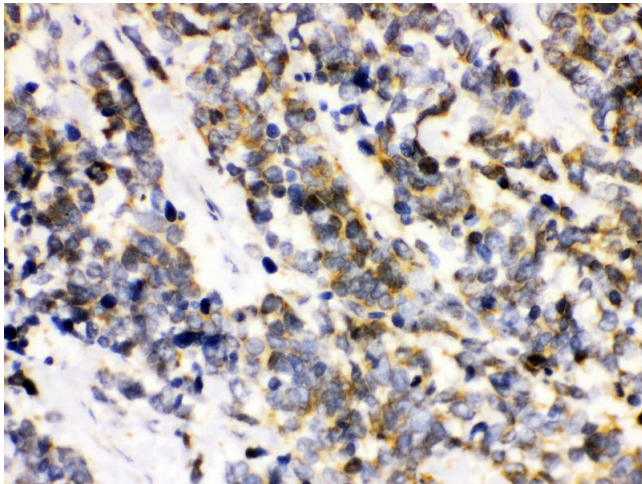
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

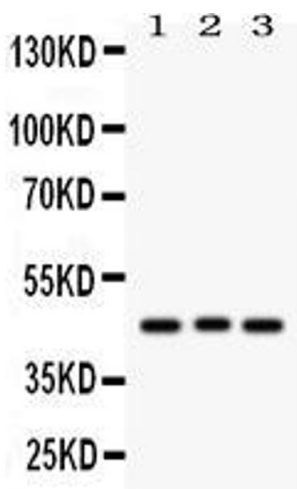
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



Immunohistochemistry

Image 1. Anti- Ataxin 3 Picoband antibody, IHC(P) IHC(P):
Human Lung Cancer Tissue



Western Blotting

Image 2. Western blot analysis of Ataxin 3 using anti-Ataxin 3 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat Brain Tissue Lysate Lane 2: COLO320 Whole Cell Lysate Lane 3: HELA Whole Cell Lysate After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Ataxin 3 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Ataxin 3 at approximately 42KD. The expected band size for Ataxin 3 is at 42KD.