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Datasheet for ABIN7505219

Ataxin 3 Protein (ATXN3) (AA 1-370) (His tag)

Overview

Quantity:	100 µg
Target:	Ataxin 3 (ATXN3)
Protein Characteristics:	AA 1-370
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ataxin 3 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Lys 370
Characteristics:	A DNA sequence encoding the Human ATXN3 protein (P54252-2) (Met 1-Lys 370) was expressed with a C-His and N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Ataxin 3 (ATXN3)
Alternative Name:	Ataxin-3 (ATXN3 Products)
Background:	Abbreviation: Ataxin-3,ATXN3 Target Synonym: Ataxin-3,ATXN3,Machado-Joseph disease protein1,Spinocerebellar ataxia type 3 protein Background: Ataxin-3 is a ubiquitously expressed nuclear protein that serves as a

Target Details

deubiquitinating enzyme (DUB) involved in protein homeostasis and quality control, myogenesis and degradation of misfolded chaperone substrates. As a DUB, it has two distinct features. Its N-terminal Josephin domain confers cysteine protease activity to Ataxin-3 which is important for hydrolyzing ubiquitin (Ub) linkages. The second important feature is its three Ub-interacting motifs (UIMs) through which it binds Ub conjugates and ubiquitinated proteins and bring them into proximity to trim or edit specific linkages within these Ub conjugates. It binds long poly-Ub chains and trims them. However, it has weak or no activity against chains of 4 or less Ub.

Molecular Weight: Calculated MW: 40.59 kDa
 Observed MW: 50 kDa

UniProt: [P54252-2](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
 Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months