



[Go to Product page](#)

Datasheet for ABIN2778569

anti-Aprataxin antibody (C-Term)

2 Images

1 Publication

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | Aprataxin (APTX) |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse, Rat, Guinea Pig, Dog, Rabbit, Horse, Cow |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Aprataxin antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), Western Blotting (WB) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | The immunogen is a synthetic peptide directed towards the C terminal region of human APTX |
| Sequence: | VIEMVQEAGR VTVRDGMPEL LKLPLRCHEC QQLLPSIPQL KEHLRKHWIQ |
| Predicted Reactivity: | Cow: 100%, Dog: 92%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100% |
| Characteristics: | This is a rabbit polyclonal antibody against APTX. It was validated on Western Blot and immunohistochemistry. |
| Purification: | Protein A purified |

Target Details

| | |
|---------|------------------|
| Target: | Aprataxin (APTX) |
|---------|------------------|

Target Details

Alternative Name: [APTX \(APTX Products\)](#)

Background: APTX is a member of the histidine triad (HIT) superfamily, some of which have nucleotide-binding and diadenosine polyphosphate hydrolase activities. APTX may play a role in single-stranded DNA repair. Mutations in this gene have been associated with ataxia-ocular apraxia. This gene encodes a member of the histidine triad (HIT) superfamily, some of which have nucleotide-binding and diadenosine polyphosphate hydrolase activities. The encoded protein may play a role in single-stranded DNA repair. Mutations in this gene have been associated with ataxia-ocular apraxia. Multiple transcript variants encoding distinct isoforms have been identified for this gene, however, the full length nature of some variants has not been determined. This gene encodes a member of the histidine triad (HIT) superfamily, some of which have nucleotide-binding and diadenosine polyphosphate hydrolase activities. The encoded protein may play a role in single-stranded DNA repair. Mutations in this gene have been associated with ataxia-ocular apraxia. Multiple transcript variants encoding distinct isoforms have been identified for this gene, however, the full length nature of some variants has not been determined.

Alias Symbols: AOA, AOA1, AXA1, EAOH, EOAHA, FHA-HIT

Protein Interaction Partner: PNMA1, UBC, SUMO1, NEDD8, LIG3, HSPA4, XRCC1, DDX21, CNTROB, TSPYL2, CALCOCO1, SYT17, ZNF639, MAPKBP1, CEP350, PICK1, XRCC4, TRIM37, MBP, HIVEP1, BANF1, PARP1, TP53,

Protein Size: 342

Molecular Weight: 38 kDa

Gene ID: 54840

NCBI Accession: [NM_175073](#), [NP_778243](#)

UniProt: [Q6JV85](#)

Pathways: [DNA Damage Repair](#), [Chromatin Binding](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 342 AA

Restrictions: For Research Use only

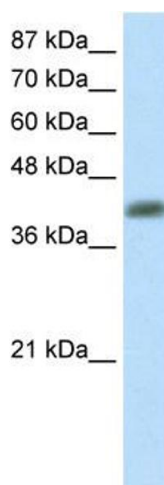
Handling

| | |
|--------------------|---|
| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| 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 freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Publications

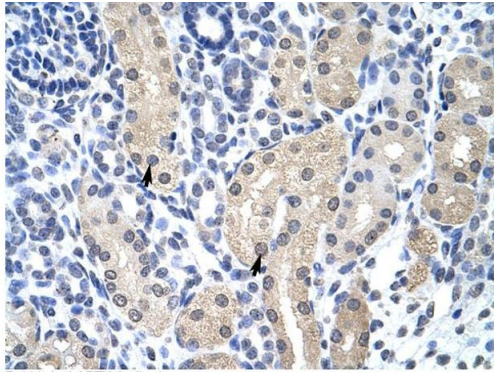
Product cited in: Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) ([PubMed](#)).

Images



Western Blotting

Image 1. WB Suggested Anti-APT_X Antibody Titration: 2.5ug/ml ELISA Titer: 1:1562500 Positive Control: NCI-H226 cell lysate



Rabbit Anti-APT X Antibody
Catalog Number: ARP40014
Lot Number: QC9303
Paraffin Embedded Tissue: Human Kidney
Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

Immunohistochemistry

Image 2. Human kidney