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Datasheet for ABIN5514381

anti-NUDT1 antibody (Middle Region)

1 Image

Overview

Quantity:	100 µL
Target:	NUDT1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of Human 8ODP
Sequence:	WNGFGGKVQE GETIEDGARR ELQEESGLTV DALHKVGQIV FEFVGEPELM
Predicted Reactivity:	Cow: 86%, Dog: 93%, Guinea Pig: 86%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 86%, Rat: 93%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against 8ODP. It was validated on Western Blot.
Purification:	Affinity purified

Target Details

Target:	NUDT1
Alternative Name:	8ODP (NUDT1 Products)
Background:	Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and

Target Details

transcription can cause mutations that may result in carcinogenesis or neurodegeneration. The protein encoded by this gene is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 8-oxo-dATP, 2-hydroxy-dATP, and 2-hydroxy rATP, to monophosphates, thereby preventing misincorporation. The encoded protein is localized mainly in the cytoplasm, with some in the mitochondria, suggesting that it is involved in the sanitization of nucleotide pools both for nuclear and mitochondrial genomes. Several alternatively spliced transcript variants, some of which encode distinct isoforms, have been identified. Additional variants have been observed, but their full-length natures have not been determined. A single-nucleotide polymorphism that results in the production of an additional, longer isoform (p26) has been described.

Alias Symbols: NUDT1, MTH1,

Protein Interaction Partner: ACY1, UBC, DCUN1D1, COPS5, COPS6, CUL1, CUL2, CUL4B, CUL5, CAND1, RNMTL1, NTHL1,

Protein Size: 197

Gene ID: 4521

UniProt: [P36639](#)

Application Details

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

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

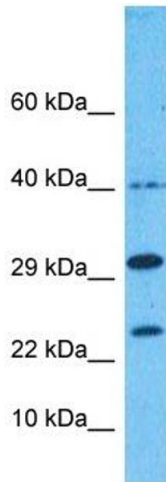
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Handling

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.

Images



Western Blotting

Image 1. Host: Rabbit Target Name: 8ODP Sample Type: 293T Whole Cell lysates Antibody Dilution: 1.0ug/ml