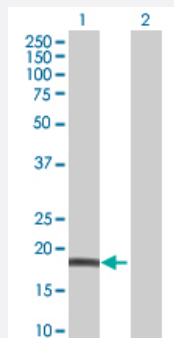


NUDT1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00004521-T01

Size 100 uL

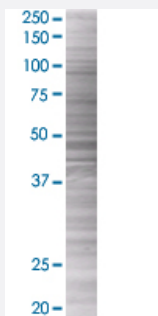
Applications



Western Blot

Lane 1: NUDT1 transfected lysate (18 kDa)

Lane 2: Non-transfected lysate.



SDS-PAGE Gel

NUDT1 transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-NUDT1 full-length
Host	Human
Theoretical MW (kDa)	17.27
Interspecies Antigen Sequence	Mouse (83); Rat (85)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-NUDT1 antibody ([H00004521-B01](#)) by Western Blots.

Western Blot

Lane 1: NUDT1 transfected lysate (18 KDa)

Lane 2: Non-transfected lysate.

SDS-PAGE Gel

NUDT1 transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — NUDT1

Entrez GeneID

[4521](#)

GeneBank Accession#

[NM_002452](#)

Protein Accession#

[NP_002443](#)

Gene Name

NUDT1

Gene Alias

MTH1

Gene Description

nudix (nucleoside diphosphate linked moiety X)-type motif 1

Omim ID

[600312](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and 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. [provided by RefSeq]

Other Designations

7,8-dihydro-8-oxoguanine triphosphatase|8-oxo-7,8-dihydrodeoxyguanosine triphosphatase|8-oxo-7,8-dihydroguanosine triphosphatase|8-oxo-dGTPase|OTTHUMP00000024690|OTTHUMP00000115537|OTTHUMP00000115538|OTTHUMP00000115539|OTTHUMP00000115540|mutT human homolo

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Breast cancer](#)
- [Carcinoma](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Intestinal Polyps](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Neoplasms](#)

- [Occupational Diseases](#)
- [Oropharyngeal Neoplasms](#)
- [Parkinson disease](#)
- [Poisoning](#)
- [Stomach Neoplasms](#)
- [Werner syndrome](#)