

Product datasheet for **TA379394S**

MTH1 (NUDT1) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, IP, WB |
| Recommended Dilution: | WB, 1:500 - 1:2000 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |
| Reactivity: | Human |
| Modifications: | Unmodified |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Formulation: | Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| Concentration: | lot specific |
| Purification: | Affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C. Avoid freeze / thaw cycles. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 18kDa |
| Gene Name: | nudix hydrolase 1 |
| Database Link: | Entrez Gene 4521 Human P36639 |



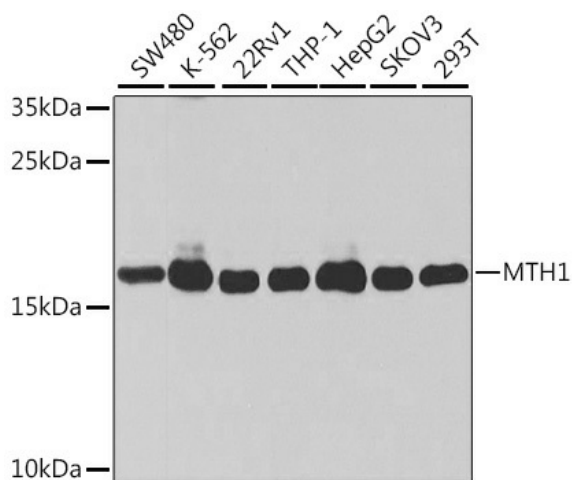
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Background:

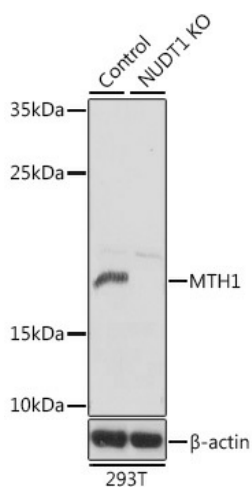
Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and transcription can cause mutations that may result in carcinogenesis or neurodegeneration. The protein encoded by this gene is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 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 rare single-nucleotide polymorphism that results in the production of an additional, longer isoform (p26) has been described.

Synonyms:

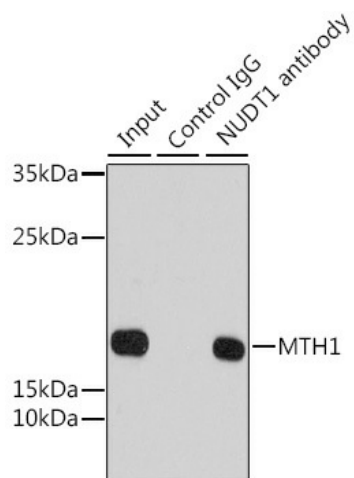
8-oxo-dGTPase; MTH1; OTTHUMP00000115537; OTTHUMP00000115540

Product images:


Western blot analysis of various lysates using [KO Validated] MTH1 Rabbit pAb ([TA379394]) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Western blot analysis of lysates from wild type (WT) and MTH1 knockout (KO) 293T cells



Immunoprecipitation analysis of 200 μ g extracts of 293T cells using 1 μ g MTH1 antibody ([TA379394]). Western blot was performed from the immunoprecipitate using MTH1 antibody ([TA379394]) at a dilution of 1:1000.