

Datasheet

NUDT1 monoclonal antibody (M02), clone 5F11

Catalog Number: H00004521-M02

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant NUDT1.

Clone Name: 5F11

Immunogen: NUDT1 (AAH14618, 1 a.a. ~ 179 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MSGISPQQMGEPEGWSGKNPGTMGASRLYLVLVL
QPQRVLLGMKKRGFGAGRWNFGGKQVEGETIEDG
ARRELQEEESGLTVDALHKVGQIVFEFVGEPELMDVHV
FCTDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDS
YWFPLLLQKKKFHGYFKFQGQDTILDYTLREVDTV

Host: Mouse

Reactivity: Human

Applications: ELISA, S-ELISA, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4521

Gene Symbol: NUDT1

Gene Alias: MTH1

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]