Recombinant Human NUDT2

Cat. No. NUDT2-29730TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NUDT2 with 25 kDa proprietary tag produced in Saccharomyces cerevisiae; amino acids 1-147; 147 amino acids, 16.8kDa.
Species	Human
ProteinLength	1-147 a.a.
Description	This gene encodes a member of the MutT family of nucleotide pyrophosphatases, a subset of the larger NUDIX hydrolase family. The gene product possesses a modification of the MutT sequence motif found in certain nucleotide pyrophosphatases. The enzyme asymmetrically hydrolyzes Ap4A to yield AMP and ATP and is responsible for maintaining the intracellular level of the dinucleotide Ap4A, the function of which has yet to be established. This gene may be a candidate tumor suppressor gene. Alternative splicing has been observed at this locus and four transcript variants, all encoding the same protein, have been identified.
Form	Liquid
Purity	Immunogen affinity purified
Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids	MALRACGLIIFRRCLIPKVDNNAIEFLLLQASDGIHHWTP PKGHVEPGEDDLETALRE TQEEAGIEAGQLTIIEGFKREL NYVARNKPKTVIYWLAEVKDYDVEIRLSHEHQAYR WLGLE EACQLAQFKEMKAALQEGHQFLCSIEA
Sequence Similarities	Belongs to the Nudix hydrolase family.Contains 1 nudix hydrolase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	NUDT2 nudix (nucleoside diphosphate linked moiety X)-type motif 2 [Homo sapiens]
Official Symbol	NUDT2
Synonyms	NUDT2; nudix (nucleoside diphosphate linked moiety X)-type motif 2; APAH1; bis(5-nucleosyl)-tetraphosphatase [asymmetrical]; Ap4A hydrolase 1; Ap4Aase; bis(5 nucleosyl) tetraphosphatase (asymmetrical); diadenosine 5; 5 P1; P4 tetraphosphate pyrophosphohyd
Gene ID	318
mRNA Refseq	NM_001161
Protein Refseq	NP_001152
MIM	602852
Uniprot ID	P50583
Chromosome Location	9p13

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Pathway	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;
Function	GTP binding; bis(5-nucleosyl)-tetraphosphatase (asymmetrical) activity; bis(5-nucleosyl)-tetraphosphatase (symmetrical) activity; hydrolase activity; nucleotide binding;

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