

Recombinant Mouse Nudt16l1 Protein, Myc/DDK-tagged

Cat. No. Nudt16l1-4537M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (cDNA clone MGC:35707 IMAGE:5322456),, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to chromatin. In absence of DNA damage, interacts with the tandem Tudor-like domain of TP53BP1, masking the region that binds histone H4 dimethylated at 'Lys-20' (H4K20me2), thereby preventing TP53BP1 recruitment to chromatin and maintaining TP53BP1 localization to the nucleus. Following DNA damage, ATM-induced phosphorylation of TP53BP1 and subsequent recruitment of RIF1 leads to dissociate NUDT16L1/TIRR from TP53BP1, unmasking the tandem Tudor-like domain and allowing recruitment of TP53BP1 to DNA double strand breaks (DSBs). Binds U8 snoRNA.
Molecular Mass	16.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Nudt16l1 nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 [Mus musculus (house mouse)]
Official Symbol	Nudt16l1
Synonyms	Nudt16l1; nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1; Sdos; 1110001K21Rik; 5330437I08Rik; tudor-interacting repair regulator protein; NUDT16-like protein 1; protein syndesmos
Gene ID	66911
mRNA Refseq	NM_025839
Protein Refseq	NP_080115
UniProt ID	Q8VHN8

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