

Product datasheet for **TP302638M**

SDOS (NUDT16L1) (NM_032349) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (NUDT16L1), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC202638 protein sequence Red =Cloning site Green =Tags(s) |
| | MSTAAVPELKQISRVEAMRLGPGWWSCHAMLYAANPGQLFGRIPMRFVLMQMRFDGLLGFPGGFVDRR FWSLEDGLNRVLGLGLGCLRLTEADYLSSHLTEGPHRVVAHLYARQLTLEQLHAVEISAVHSRDHGLEVEL GLVRVPLYTQKDRVGGFPNFLSNAFVSTAKCQLLFALKVLNMMPEEKLV EALAAATEKQKKALEKLLPAS S |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 23.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_115725 |
| Locus ID: | 84309 |



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UniProt ID: [Q9BRJ7](#)

RefSeq Size: 1367

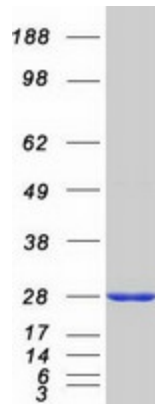
Cytogenetics: 16p13.3

RefSeq ORF: 633

Synonyms: SDOS; TIRR

Summary: Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to chromatin (PubMed:28241136). 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 (PubMed:28241136). 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) (PubMed:28241136). Binds U8 snoRNA (PubMed:18820299).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified NUDT16L1 protein (Cat# [TP302638]). The protein was produced from HEK293T cells transfected with NUDT16L1 cDNA clone (Cat# [RC202638]) using MegaTran 2.0 (Cat# [TT210002]).