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Product datasheet for PH302638

SDOS (NUDT16L1) (NM_032349) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NUDT16L1 MS Standard C13 and N15-labeled recombinant protein (NP_115725)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202638
Predicted MW:	23.3 kDa
Protein Sequence:	>RC202638 protein sequence Red=Cloning site Green=Tags(s) MSTAAVPELKQISRVEAMRLGPGWSHSCHAMLYAANPGQLFGRIPMRFSVLMQMRFDGLLGFPGGFVDRR FWSLEDGLNRVLGLGLGCLRLTEADYLSSHLTEGPHRVVAHLYARQLTLEQLHAVEISAVHSRDHGLEVL GLVRVPLYTQKDRVGGFPNFLSNAFVSTAKCQLLFALKVLNMMPEEKLVEALAAATEKQKKALEKLLPAS S TRTRPLEQKLISEEDLAANDILDYKDDDDKV		**Tag:**	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_115725
RefSeq Size:	1367
RefSeq ORF:	633
Synonyms:	SDOS; TIRR
Locus ID:	84309
UniProt ID:	Q9BRJ7, B2RD96

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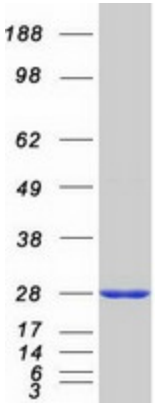
Cytogenetics: 16p13.3

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]).