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SDOS Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP5147b

Specification

SDOS Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q9BRJ7

SDOS Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 84309

Other Names
Protein syndesmos, NUDT16-like protein 1, NUDT16L1, SDOS

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SDOS Antibody (C-term) Blocking Peptide - Protein Information

Name NUDT16L1 (HGNC:28154)

Function
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).

Cellular Location
Nucleus.

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SDOS Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SDOS Antibody (C-term) Blocking Peptide - Images

SDOS Antibody (C-term) Blocking Peptide - Background

SDOS is probable adapter protein, which may link syndecan-4 (SDC4) and paxilin (TGFB1I1 and PXN) receptors.

SDOS Antibody (C-term) Blocking Peptide - References

Andersen, J.S., et al. Nature 433(7021):77-83(2005)