

NUDT7 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9149c**Specification**

NUDT7 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [POC024](#)**NUDT7 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 283927**Other Names**

Peroxisomal coenzyme A diphosphatase NUDT7, 361-, Nucleoside diphosphate-linked moiety X motif 7, Nudix motif 7, NUDT7

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9149c](/products/AP9149c) was selected from the Center region of human NUDT7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

NUDT7 Antibody (Center) Blocking Peptide - Protein Information**Name** NUDT7 ([HGNC:8054](#))**Function**

Fatty acyl-coenzyme A (CoA) diphosphatase that hydrolyzes fatty acyl-CoA to yield acyl-4'-phosphopantetheine and adenosine 3',5'- biphosphate (By similarity). Cleaves CoA, CoA esters and oxidized CoA with similar efficiencies (By similarity). Preferentially hydrolyzes medium-chain acyl-CoAs and bile acid-CoAs (By similarity). Has no activity toward NDP-sugars, CDP-alcohols, (deoxy)nucleoside 5'- triphosphates, nucleoside 5'-di or monophosphates, diadenosine polyphosphates, NAD, NADH, NADP, NADPH or thymidine-5'-monophospho-p-nitrophenyl ester (By similarity). May be required to eliminate oxidized CoA from peroxisomes, or regulate CoA and acyl-CoA levels in this organelle in response to metabolic demand (By similarity). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity). Exhibits decapping activity towards dpCoA- capped RNAs in vitro (By similarity).

Cellular Location

Peroxisome {ECO:0000250|UniProtKB:Q99P30}.

Tissue Location

Expressed in liver, kidney, pancreas, pituitary, small intestine, spleen, heart and placenta. Weakly expressed in brain

NUDT7 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NUDT7 Antibody (Center) Blocking Peptide - Images**NUDT7 Antibody (Center) Blocking Peptide - Background**

Coenzyme A diphosphatase which mediates the cleavage of CoA, CoA esters and oxidized CoA with similar efficiencies, yielding 3',5'-ADP and the corresponding 4'-phosphopantetheine derivative as products. CoA into 3',5'-ADP and 4'-phosphopantetheine. It has no activity toward NDP-sugars, CDP-alcohols, (deoxy)nucleoside 5'-triphosphates, nucleoside 5'-di or monophosphates, diadenosine polyphosphates, NAD, NADH, NADP, NADPH or thymidine-5'-monophospho-p-nitrophenyl ester. It may be required to eliminate oxidized CoA from peroxisomes, or regulate CoA and acyl-CoA levels in this organelle in response to metabolic demand (By similarity).

NUDT7 Antibody (Center) Blocking Peptide - References

Gasmi L.,et.al., Biochem. J. 357:33-38(2001).