

RNT2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10764a**Specification**

RNT2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [O00584](#)**RNT2 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 8635**Other Names**

Ribonuclease T2, 3127-, Ribonuclease 6, RNASET2, RNASE6PL

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.

RNT2 Antibody (N-term) Blocking peptide - Protein Information**Name** RNASET2**Synonyms** RNASE6PL**Function**

Ribonuclease that plays an essential role in innate immune response by recognizing and degrading RNAs from microbial pathogens that are subsequently sensed by TLR8 (PubMed:31778653). Cleaves preferentially single-stranded RNA molecules between purine and uridine residues, which critically contributes to the supply of catabolic uridine and the generation of purine-2',3'-cyclophosphate-terminated oligoribonucleotides (PubMed:31778653). In turn, RNase T2 degradation products promote the RNA-dependent activation of TLR8 (PubMed:31778653). Also plays a key role in degradation of mitochondrial RNA and processing of non-coding RNA imported from the cytosol into mitochondria (PubMed:28730546, PubMed:30184494). Participates as well in degradation of mitochondrion-associated cytosolic rRNAs (PubMed:30385512).

Cellular Location

Secreted. Lysosome lumen. Endoplasmic reticulum lumen. Mitochondrion intermembrane space.
Note=Full-length RNASET2 is found in the endoplasmic reticulum while smaller RNASET2 proteolytic products are found in the lysosome fraction.

Tissue Location

Ubiquitous. Higher expression levels observed in the temporal lobe and fetal brain.

RNT2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RNT2 Antibody (N-term) Blocking peptide - Images**RNT2 Antibody (N-term) Blocking peptide - Background**

This ribonuclease gene is a novel member of the Rh/T2/S-glycoprotein class of extracellular ribonucleases. It is a single copy gene that maps to 6q27, a region associated with human malignancies and chromosomal rearrangement.

RNT2 Antibody (N-term) Blocking peptide - References

Fransen, K., et al. Hum. Mol. Genet. 19(17):3482-3488(2010) Quan, C., et al. Nat. Genet. 42(7):614-618(2010) Liu, J., et al. J. Cell. Mol. Med. 14(5):1146-1155(2010) Henneke, M., et al. Nat. Genet. 41(7):773-775(2009) Monti, L., et al. Oncol. Res. 17(2):69-74(2008)