

SIDT2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13596c**Specification**

SIDT2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8NBJ9](#)**SIDT2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 51092**Other Names**

SID1 transmembrane family member 2, SIDT2

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13596c was selected from the Center region of SIDT2. 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.

SIDT2 Antibody (Center) Blocking peptide - Protein Information**Name** SIDT2**Function**

Mediates the translocation of RNA and DNA across the lysosomal membrane during RNA and DNA autophagy (RDA), a process in which RNA or DNA is directly imported into lysosomes in an ATP-dependent manner, and degraded (PubMed:27046251, PubMed:27846365). Involved in the uptake of single-stranded oligonucleotides by living cells, a process called gymnosis (PubMed:28277980). In vitro, mediates the uptake of linear DNA more efficiently than that of circular DNA, but exhibits similar uptake efficacy toward RNA and DNA. Binds long double-stranded RNA (dsRNA) (500 - 700 base pairs), but not dsRNA shorter than 100 bp (By similarity).

Cellular Location

Lysosome membrane; Multi-pass membrane protein. Cell membrane. Note=Mainly localizes to

lysosomes and only partly to the plasma membrane (PubMed:28277980). Lysosomal localization is required for SIDT2-mediated intracellular degradation of endogenous RNA (By similarity). {ECO:0000250|UniProtKB:Q8CIF6, ECO:0000269|PubMed:28277980}

SIDT2 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SIDT2 Antibody (Center) Blocking peptide - Images

SIDT2 Antibody (Center) Blocking peptide - Background

SIDT2 belongs to the SID1 family. It is a multi-pass membrane protein. The exact function of SIDT2 remains unknown.

SIDT2 Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)