

SIDT2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13596c**Specification**

SIDT2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8NBJ9
Other Accession	D3ZEH5 , Q8CIF6 , NP_001035545.1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	94454
Antigen Region	418-447

SIDT2 Antibody (Center) - Additional Information**Gene ID** 51092**Other Names**

SID1 transmembrane family member 2, SIDT2

Target/Specificity

This SIDT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 418-447 amino acids from the Central region of human SIDT2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SIDT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SIDT2 Antibody (Center) - 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

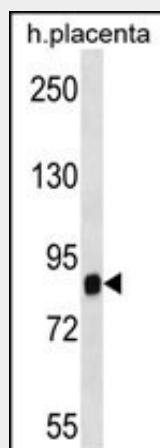
Lysosome membrane; Multi-pass membrane protein. Cell membrane. Note=Mainly localizes to lysosomes and only partly to the plasma membrane (PubMed:28277980). Lysosomal localization is required for SIDT2-mediated intracellular degradation of endogenous RNA (By similarity). {ECO:0000250|UniProtKB:Q8CIF6, ECO:0000269|PubMed:28277980}

SIDT2 Antibody (Center) - Protocols

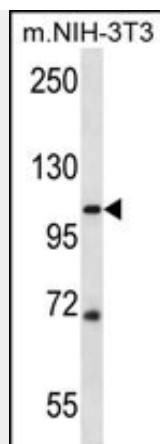
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SIDT2 Antibody (Center) - Images



SIDT2 Antibody (Center) (Cat. #AP13596c) western blot analysis in human placenta tissue lysates (35ug/lane). This demonstrates the SIDT2 antibody detected the SIDT2 protein (arrow).



SIDT2 Antibody (Center) (Cat. #AP13596c) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the SIDT2 antibody detected the SIDT2 protein (arrow).

SIDT2 Antibody (Center) - Background

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

SIDT2 Antibody (Center) - 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)

SIDT2 Antibody (Center) - Citations

- [Spontaneous nonalcoholic fatty liver disease and ER stress in Sidt2 deficiency mice.](#)