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VAT1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP4708c

Specification

VAT1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99536

VAT1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10493

Other Names
Synaptic vesicle membrane protein VAT-1 homolog, 1---, VAT1

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.

VAT1 Antibody (Center) Blocking Peptide - Protein Information

Name VAT1

Function
Possesses ATPase activity (By similarity). Plays a part in calcium-regulated keratinocyte activation in epidermal repair mechanisms. Has no effect on cell proliferation. Negatively regulates mitochondrial fusion in cooperation with mitofusin proteins (MFN1-2).

Cellular Location
Cytoplasm. Mitochondrion outer membrane; Peripheral membrane protein. Note=The majority is localized in the cytoplasm and a small amount is associated with mitochondria

Tissue Location
Expressed in brain. Also expressed in glioblastoma cells.

VAT1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

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VAT1 Antibody (Center) Blocking Peptide - Images

VAT1 Antibody (Center) Blocking Peptide - Background

Synaptic vesicles are responsible for regulating the storage and release of neurotransmitters in the nerve terminal. VAT1 is an abundant integral membrane protein of cholinergic synaptic vesicles and is thought to be involved in vesicular transport. It belongs to the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins.

VAT1 Antibody (Center) Blocking Peptide - References

Mertsch, S., et al. Neuropathol. Appl. Neurobiol. 35(4):342-352(2009)Smith, T.M., et al. Genome Res. 6(11):1029-1049(1996)Harshman, K., et al. Hum. Mol. Genet. 4(8):1259-1266(1995)