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SIN3A Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1907a

Specification

SIN3A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96ST3

SIN3A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 25942

Other Names
Paired amphipathic helix protein Sin3a, Histone deacetylase complex subunit Sin3a, Transcriptional corepressor Sin3a, SIN3A (HGNC:19353)

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1907a was selected from the N-term region of human SIN3A. 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.

SIN3A Antibody (N-term) Blocking Peptide - Protein Information

Name SIN3A (HGNC:19353)

Function
Acts as a transcriptional repressor. Corepressor for REST. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MXD1-MAX heterodimers to repress transcription by tethering SIN3A to DNA. Acts cooperatively with OGT to repress transcription in parallel with histone deacetylation. Involved in the control of the circadian rhythms. Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex through histone deacetylation. Cooperates with FOXK1 to regulate cell cycle progression probably by repressing cell cycle inhibitor genes expression (By similarity). Required for cortical neuron differentiation and callosal axon elongation (By similarity).

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Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00810, ECO:0000269|PubMed:16820529}. Nucleus, nucleolus. Note=Recruited to the nucleolus by SAP30L

Tissue Location
Expressed in the developing brain, with highest levels of expression detected in the ventricular zone of various cortical regions.

SIN3A Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SIN3A Antibody (N-term) Blocking Peptide - Images

SIN3A Antibody (N-term) Blocking Peptide - Background

Sin3A is a transcriptional regulatory protein. It contains paired amphipathic helix (PAH) domains, which are important for protein-protein interactions and may mediate repression by the Mad-Max complex. Sin3A also interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities.

SIN3A Antibody (N-term) Blocking Peptide - References

Tong, Y., et al., Proc. Natl. Acad. Sci. U.S.A. 102(6):2034-2039 (2005).Tanikawa, J., et al., J. Biol. Chem. 279(53):55393-55400 (2004).Kemper, J.K., et al., Mol. Cell. Biol. 24(17):7707-7719 (2004).Zou, J., et al., J. Biol. Chem. 279(15):14922-14928 (2004).Wysocka, J., et al., Genes Dev. 17(7):896-911 (2003).