

**Sin3A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1907c****Specification**

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**Sin3A Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96ST3](#)**Sin3A Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 25942**Other Names**

Paired amphipathic helix protein Sin3a, Histone deacetylase complex subunit Sin3a, Transcriptional corepressor Sin3a, SIN3A ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=19353](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=19353))  
HGNC:19353

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1907c](/product/products/AP1907c) was selected from the Center 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 (Center) 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).

**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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Sin3A Antibody (Center) Blocking Peptide - Images****Sin3A Antibody (Center) 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 (Center) 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).