

**Mouse Sin3a Antibody (C-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP19223b**Specification**

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**Mouse Sin3a Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q60520](#)**Mouse Sin3a Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 20466

**Other Names**

Paired amphipathic helix protein Sin3a, Histone deacetylase complex subunit Sin3a, Transcriptional corepressor Sin3a, Sin3a, Kiaa4126

**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.

**Mouse Sin3a Antibody (C-term) Blocking Peptide - Protein Information**

Name Sin3a

Synonyms Kiaa4126

**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 (PubMed: [22476904](http://www.uniprot.org/citations/22476904)). Required for cortical neuron differentiation and callosal axon elongation (PubMed: [27399968](http://www.uniprot.org/citations/27399968)).

**Cellular Location**

Nucleus. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q96ST3}. Note=Recruited to the nucleolus by SAP30L. {ECO:0000250|UniProtKB:Q96ST3, ECO:0000269|PubMed:21454521}

**Tissue Location**

Widely expressed. Highest levels in testis, lung and thymus. Expressed at relatively high levels throughout brain development. In adult mice, expression is high in neurogenic regions such as the subventricular zone, rostral migratory stream, olfactory bulb and dentate gyrus (PubMed:27399968)

**Mouse Sin3a Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Sin3a Antibody (C-term) Blocking Peptide - Images****Mouse Sin3a Antibody (C-term) Blocking Peptide - Background**

Sin3a acts as a transcriptional repressor. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MAD-MAX heterodimers by binding to MAD. The heterodimer then represses transcription by tethering SIN3A to DNA. Acts as a corepressor for REST.

**Mouse Sin3a Antibody (C-term) Blocking Peptide - References**

Baltus, G.A., et al. J. Biol. Chem. 284(11):6998-7006(2009)Anderson, D.M., et al. Dev. Dyn. 238(3):572-580(2009)Chang, S., et al. J. Immunol. 181(12):8372-8381(2008)van Oevelen, C., et al. Mol. Cell 32(3):359-370(2008)Wilkinson, D.S., et al. Mol. Cell. Biol. 28(6):1988-1998(2008)