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Mouse Sin3a Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19223b

Specification

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). Required for cortical neuron differentiation and callosal axon elongation (PubMed: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)