

Recombinant Anti-SIN3A Rabbit mAb

Catalog # AP95077

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q96ST3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	145175

Additional Information

Gene ID	25942
Other Names	Paired amphipathic helix protein Sin3a; Histone deacetylase complex subunit Sin3a; Transcriptional corepressor Sin3a
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human SIN3A protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

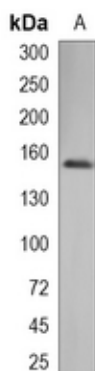
Protein Information

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

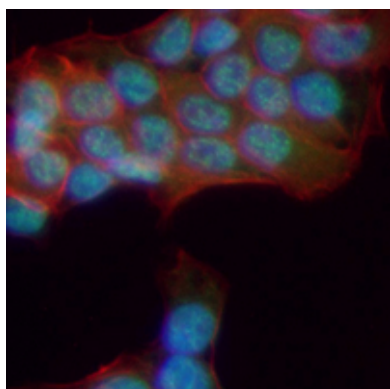
Tissue Location

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

Images



Western blot analysis of SIN3A expression in K562 (A) whole cell lysates. (Predicted band size: 145 kD; Observed band size: 150 kD)



Immunofluorescent analysis of SIN3A staining in K562 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.