# Human/Mouse SIN3A Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF6115

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human/Mouse |
| **Specificity** | Detects human and mouse SIN3A in Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human SIN3A<br>Tyr1187-Pro1273<br>Accession # Q96ST3 |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

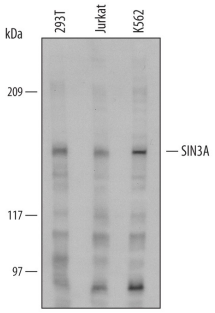
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | See Below |

## DATA

**Western Blot**




**Detection of Human SIN3A by Western Blot.** Western blot shows lysates of 293T human embryonic kidney cell line, Jurkat human acute T cell leukemia cell line, and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse SIN3A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6115) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SIN3A at approximately 145 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

SIN3A (Switch insensitive-3 A) is a nuclear, 140-150 kDa member of the SIN3 family of co-repressors. SIN3A plays a key role in gene repression. Normally, genes are not expressed when chromatin is "closed", or condensed, precluding transcriptional activators from assembling on gene promoters. This state is achieved through histone deacetylation and DNA methylation, and SIN3A serves as a scaffold for multiple proteins, including deacetylases (HDAC1 and 2). Human SIN3A is 1273 amino acids (aa) in length. It contains three PAH (paired amphipathic helix) repeats (aa 141-187, 322-381 and 477-523) and multiple phosphoserines and acetylated lysines. There are three potential splice variants. The first shows a 33 aa substtution for aa 124-1273, while the second and third show eight aa substitutions for aa 337-352, coupled to either a deletion of aa 1009-1066, or a two aa substitution for aa 1008-1065. Over aa 1187-1273, human and mouse SIN3A show 100% identity in aa sequence.



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