Human/Mouse SIN3A Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6115R
100 µg

DESCRIPTION

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 Tyr1187-Pro1273 Accession # Q96ST3
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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