10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SIN3B antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13194

Product Information

Application	WB
Primary Accession	O75182
Other Accession	NM_015260, NP_056075
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	133066

Additional Information

Gene ID	23309
Alias Symbol	KIAA0700
Other Names	Paired amphipathic helix protein Sin3b, Histone deacetylase complex subunit Sin3b, Transcriptional corepressor Sin3b, SIN3B (HGNC:19354), KIAA0700
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SIN3B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SIN3B antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SIN3B (HGNC:19354)
Synonyms	KIAA0700
Function	Acts as a transcriptional repressor. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Interacts with MAD-MAX heterodimers by binding to MAD. The heterodimer then represses transcription by tethering SIN3B to DNA. Also forms a complex with FOXK1 which represses transcription. With FOXK1, regulates cell cycle progression probably by repressing cell cycle inhibitor genes expression. As part of the SIN3B complex represses transcription and counteracts the histone acetyltransferase activity of EP300 through the recognition H3K27ac marks by

PHF12 and the activity of the histone deacetylase HDAC2 (PubMed:37137925). SIN3B complex is recruited downstream of the constitutively active genes transcriptional start sites through interaction with histones and mitigates histone acetylation and RNA polymerase II progression within transcribed regions contributing to the regulation of transcription (PubMed:21041482).

Cellular Location Nucleus {ECO:0000255|PROSITE-ProRule:PRU00810}.

References

Ali M.,et al.Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Wysocka J.,et al.Genes Dev. 17:896-911(2003).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

Images

WB Suggested Anti-SIN3B Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: HCT15 cell lysate