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NCOR1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1216a

Product Information

Application	WB, IHC, E
Primary Accession	O75376
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7A7A9
Isotype	IgG1
Calculated MW	270210
Description	NCOR1: Nuclear receptor co-repressor 1. This gene encodes a protein that mediates ligand-independent transcription repression of thyroid-hormone and retinoic-acid receptors by promoting chromatin condensation and preventing access of the transcription machinery. It is part of a complex which also includes histone deacetylases and transcriptional regulators similar to the yeast protein Sin3p. This gene is located between the Charcot-Marie-Tooth and Smith-Magenis syndrome critical regions on chromosome 17. An alternatively spliced transcript variant has been described, but its full length sequence has not been determined.
Immunogen	Purified recombinant fragment of NCOR1 (aa1-192) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	9611
Other Names	Nuclear receptor corepressor 1, N-CoR, N-CoR1, NCOR1, KIAA1047
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NCOR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NCOR1

Synonyms	KIAA1047
Function	Mediates transcriptional repression by certain nuclear receptors (PubMed:20812024). Part of a complex which promotes histone deacetylation and the formation of repressive chromatin structures which may impede the access of basal transcription factors. Participates in the transcriptional repressor activity produced by BCL6. Recruited by ZBTB7A to the androgen response elements/ARE on target genes, negatively regulates androgen receptor signaling and androgen-induced cell proliferation (PubMed:20812024). Mediates the NR1D1-dependent repression and circadian regulation of TSHB expression (By similarity). The NCOR1-HDAC3 complex regulates the circadian expression of the core clock gene ARTNL/BMAL1 and the genes involved in lipid metabolism in the liver (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00624}.

References

1. Mol Cell Biol. 2005 Aug;25(15):6404-14. 2. Biochem Biophys Res Commun. 2006 Jul 14;345(4):1471-80.

Images

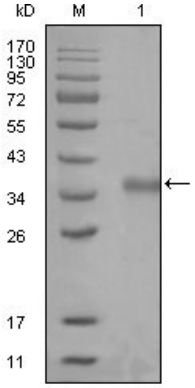


Figure 1: Western blot analysis using NCOR1 mouse mAb against truncated Trx-NCOR1 recombinant protein (1).

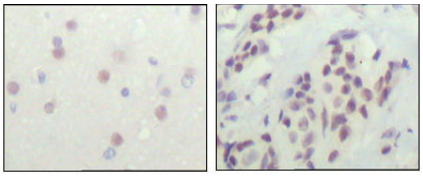


Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebra (left) and breast carcinoma tissue (right), showing nuclear location with DAB staining using NCOR1 mouse mAb.

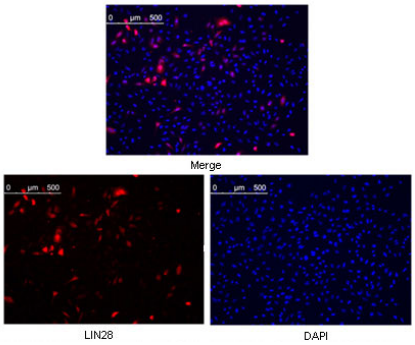
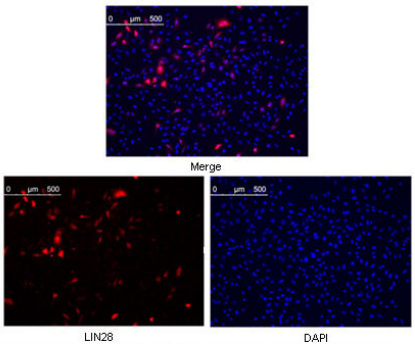


Figure 2: Confocal immunofluorescence analysis of methanol fixed Hela cells were transfected with pMX construct of human LIN28, cells were analyzed ~62 hours after transfection.

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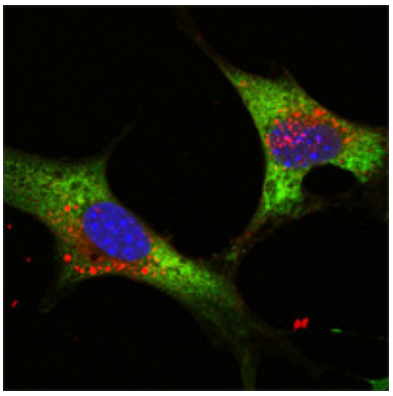


Figure 3: Confocal immunofluorescence analysis of NTERA-2 cells using anti-LIN28 mAb (green). Blue: DRAQ5 fluorescent DNA dye.

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