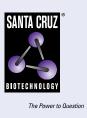
SANTA CRUZ BIOTECHNOLOGY, INC.

LCOR (G-4): sc-515594



BACKGROUND

LCOR (ligand-dependent corepressor), also referred as MLR2, is a 433 amino acid transcriptional corepressor that contains an LXXLL motif, a nuclear localization signal and a helix-loop-helix domain. LCOR is widely expressed in fetal and adult tissues and is recruited to nuclear receptors through its LXXLL motif. LCOR interacts with several estrogen receptors, such as $ER\alpha$ and $ER\beta$ in the presence of estradiol. Additionally, LCOR acts as a molecular scaffold, functioning to recruit proteins involved in transcriptional repression to the DNA. LCOR activity is inhibited in a receptor-dependent fashion by the HDAC (histone deacetylase) inhibitor trichostatin A, suggesting HDAC-dependent mode of action. LCOR functions in a negative feedback loop to reduce hormone-induced transactivation.

REFERENCES

- 1. Jenster, G. 1998. Coactivators and corepressors as mediators of nuclear receptor function: an update. Mol. Cell. Endocrinol. 143: 1-7.
- 2. Fernandes, I., et al. 2003. Agonist-bound nuclear receptors: not just targets of coactivators. J. Mol. Endocrinol. 31: 1-7.
- 3. Fernandes, I., et al. 2003. Ligand-dependent nuclear receptor corepressor LCoR functions by histone deacetylase-dependent and -independent mechanisms. Mol. Cell 11: 139-150.
- 4. Online Mendelian Inheritance in Man, OMIM[™]. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607698. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 5. Privalsky, M.L. 2004. The role of corepressors in transcriptional regulation by nuclear hormone receptors. Annu. Rev. Physiol. 66: 315-360.
- 6. White, J.H., et al. 2004. Corepressor recruitment by agonist-bound nuclear receptors. Vitam. Horm. 68: 123-143.
- 7. SWISS-PROT/TrEMBL (Q96JN0). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

CHROMOSOMAL LOCATION

Genetic locus: LCOR (human) mapping to 10q24.1; Lcor (mouse) mapping to 19 C3.

SOURCE

LCOR (G-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 57-76 near the N-terminus of LCOR of human origin.

PRODUCT

Each vial contains 200 µg lgA in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-515594 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

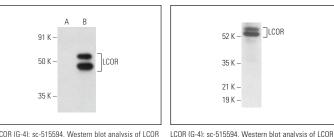
LCOR (G-4) is recommended for detection of LCOR of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

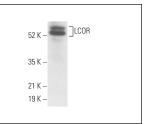
Suitable for use as control antibody for LCOR siRNA (h): sc-90371, LCOR siRNA (m): sc-146685, LCOR shRNA Plasmid (h): sc-90371-SH, LCOR shRNA Plasmid (m): sc-146685-SH, LCOR shRNA (h) Lentiviral Particles: sc-90371-V and LCOR shRNA (m) Lentiviral Particles: sc-146685-V.

Molecular Weight of LCOR: 47 kDa.

Positive Controls: LCOR (h): 293T Lysate: sc-116449 or Hep G2 cell lysate: sc-2227.

DATA





LCOB (G-4): sc-515594. Western blot analysis of LCOB expression in non-transfected: sc-117752 (A) and human LCOR transfected: sc-116449 (B) 293T whole cell lysates

expression in Hep G2 whole cell lysate

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.