BACKGROUND
LCOR (ligand-dependent corepressor), also referred to 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 ERα and ERβ 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 transcription.

REFERENCES

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

SOURCE
LCOR (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LCor of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
Blocking peptide available for competition studies, sc-163008 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

APPLICATIONS
LCOR (D-15) is recommended for detection of LCor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with LCorL.

LCOR (D-15) is also recommended for detection of LCor in additional species, including equine, canine, bovine, porcine and avian.

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, HeLa whole cell lysate: sc-2200 or SP2/0 whole cell lysate: sc-364795.

DATA

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