

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LCoR in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 731229
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human LCoR Asn110-Gln338 Accession # Q96JN0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

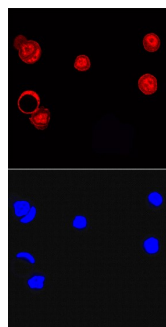
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



LCoR in MCF-7 Human Cell Line. LCoR was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human LCoR Monoclonal Antibody (Catalog # MAB7534) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LCoR (ligand-dependent corepressor), also known as MLR2 (Mblk1-related protein 2), is a 47-50 kDa nuclear phosphoprotein that is a corepressor of ligand-dependent transcriptional activation by nuclear receptors such as estrogen and progesterone receptors. It is widely expressed throughout fetal development and in the adult. The 433 amino acid (aa) LCoR contains two N-terminal PxDSL nuclear receptor interaction motifs, a central HDAC interaction motif, a nuclear localization signal, and a C-terminal Helix-Turn-Helix motif. Alternate splicing produces a truncated 406 aa variant. Within the region used as an immunogen, human LCoR shares 97% aa identity with mouse and rat LCoR.