

ERR γ (G-18): sc-50932

BACKGROUND

Estrogen and progesterone receptors are members of a family of transcription factors that are regulated by the binding of their cognate ligands. The interaction of hormone-bound estrogen receptors with estrogen responsive elements (EREs) alters transcription of ERE-containing genes. Estrogen receptor-related proteins (ERR α , β and γ) are orphan nuclear receptors. Like estrogen receptors, ERRs bind specifically to EREs to activate reporter genes. EREs are constitutively active without binding to estrogen. The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (PR-A and PR-B), which arise from alternative splicing. In most cells, PR-B functions as a transcriptional activator of progesterone-responsive genes, whereas PR-A functions as a transcriptional inhibitor of all steroid hormone receptors. mPR is a membrane progesterin receptor. The predicted 436 amino acid ERR γ protein, which presumably localizes to the nucleus, is expressed in the heart, kidney, brain, lung, bone marrow, adrenal gland, trachea, spinal cord and thyroid gland tissues.

CHROMOSOMAL LOCATION

Genetic locus: ESRRG (human) mapping to 1q41; Esrrg (mouse) mapping to 1 H6.

SOURCE

ERR γ (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ERR γ of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-50932 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-50932 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ERR γ (G-18) is recommended for detection of ERR γ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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). ERR γ (G-18) is also recommended for detection of ERR γ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ERR γ siRNA (h): sc-44704, ERR γ siRNA (m): sc-44705, ERR γ shRNA Plasmid (h): sc-44704-SH, ERR γ shRNA Plasmid (m): sc-44705-SH, ERR γ shRNA (h) Lentiviral Particles: sc-44704-V and ERR γ shRNA (m) Lentiviral Particles: sc-44705-V.

ERR γ (G-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

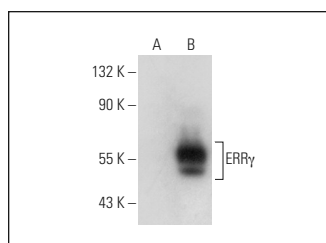
Molecular Weight of ERR γ isoforms: 51/49 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or ERR γ (h2): 293T Lysate: sc-177199.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



ERR γ (G-18): sc-50932. Western blot analysis of ERR γ expression in non-transfected: sc-117752 (A) and human ERR γ transfected: sc-177199 (B) 293T whole cell lysates.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **ERR γ (D-1): sc-393969**, our highly recommended monoclonal alternative to ERR γ (G-18).