

Ero1-L α (H-90): sc-98354

BACKGROUND

Ero1-L α (endoplasmic oxidoreductin-1-like), also known as Ero1 α or oxidoreductin-1-L α , is an essential oxidoreductase that oxidizes proteins and is required for the folding of immunoglobulins. Ero1-L α covalently binds with PDI (protein disulfide-isomerase) and together they produce disulfide bonds between proteins in the endoplasmic reticulum. Ero1-L α and SIRT1 regulate adiponectin secretion from adipose tissue. Ero1-L α and associated proteins also modulate PPAR γ (peroxisome proliferator-activated receptor γ) and SIRT1 activities. Ero1-L α is stimulated by hypoxia, suggesting that it is regulated through the HIF (hypoxia inducible transcription factor) pathway. Ero1-L α is ubiquitously expressed at low levels but expressed at high levels in upper digestive tract and esophagus. Ero1-L α may function both as a monomer and a homodimer.

CHROMOSOMAL LOCATION

Genetic locus: ERO1L (human) mapping to 14q22.1; Ero1l (mouse) mapping to 14 C1.

SOURCE

Ero1-L α (H-90) is a rabbit polyclonal antibody raised against amino acids 91-180 mapping near the N-terminus of Ero1-L α 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.

APPLICATIONS

Ero1-L α (H-90) is recommended for detection of Ero1-L α 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ero1-L α (H-90) is also recommended for detection of Ero1-L α in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Ero1-L α siRNA (h): sc-77284, Ero1-L α siRNA (m): sc-77285, Ero1-L α shRNA Plasmid (h): sc-77284-SH, Ero1-L α shRNA Plasmid (m): sc-77285-SH, Ero1-L α shRNA (h) Lentiviral Particles: sc-77284-V and Ero1-L α shRNA (m) Lentiviral Particles: sc-77285-V.

Molecular Weight of Ero1-L α : 54 kDa.

Positive Controls: Ero1-L α (m): 293T Lysate: sc-120109, mouse ovary extract: sc-2404 and ES-2 cell lysate: sc-24674.

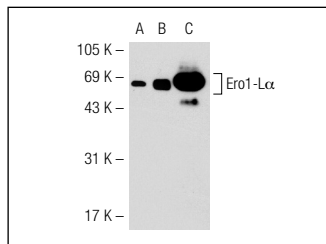
STORAGE

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

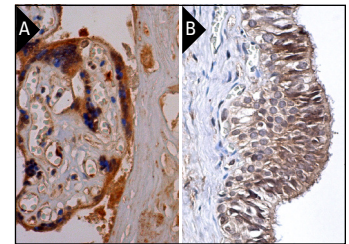
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Ero1-L α (H-90): sc-98354. Western blot analysis of Ero1-L α expression in non-transfected: sc-117752 (A) and mouse Ero1-L α transfected: sc-120109 (B) 293T whole cell lysates and mouse ovary tissue extract (C).



Ero1-L α (H-90): sc-98354. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells and decidual cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic staining of cells in seminiferous ducts (B).

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 **Ero1-L α (D-7): sc-365526** or **Ero1-L α (YW-8): sc-100805**, our highly recommended monoclonal alternatives to Ero1-L α (H-90).