

ERI-1 (F-15): sc-34609

BACKGROUND

Helicase with RNase motif, more commonly designated dicer, cleaves double-stranded RNA (dsRNA) in the RNA interference and small temporal RNA (stRNA) pathways, producing active small RNA components (siRNAs) which target the destruction of RNA and repress gene expression. Human dicer cleaves dsRNA independent of ATP. The 3'-5' exonuclease ERI-1, also known as protein 3'hExo, degrades Histone mRNA after replication and may be involved in the regulation of RNA interference. ERI-1 has a high affinity for the stem-loop structure of replication-dependent Histone pre-mRNAs. It requires the 5'-ACCCA-3' sequence present in stem-loop structure. ERI-1 and a stem-loop binding protein (SLBP) target opposite faces of a unique highly conserved stem-loop RNA scaffold towards the 3' end of Histone mRNA.

CHROMOSOMAL LOCATION

Genetic locus: THEX1 (human) mapping to 8p23.1.

SOURCE

ERI-1 (F-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ERI-1 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-34609 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.

RESEARCH USE

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

APPLICATIONS

ERI-1 (F-15) is recommended for detection of ERI-1 of 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).

ERI-1 (F-15) is also recommended for detection of ERI-1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ERI-1 siRNA (h): sc-45559, ERI-1 shRNA Plasmid (h): sc-45559-SH and ERI-1 shRNA (h) Lentiviral Particles: sc-45559-V.

Molecular Weight (predicted) of ERI-1: 34 kDa.

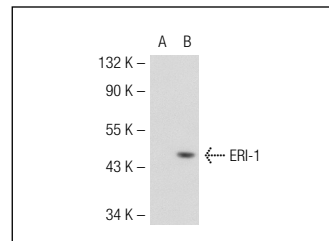
Molecular Weight (observed) of ERI-1: 42 kDa.

Positive Controls: ERI-1 (h): 293T Lysate: sc-114320, HeLa whole cell lysate: sc-2200 or JAR cell lysate: sc-2276.

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



ERI-1 (F-15): sc-34609. Western blot analysis of ERI-1 expression in non-transfected: sc-117752 (A) and human ERI-1 transfected: sc-114320 (B) 293T whole cell lysates.

PROTOCOLS

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



Try **ERI-1 (B-10): sc-137089** or **ERI-1 (C-8): sc-137099**, our highly recommended monoclonal alternatives to ERI-1 (F-15).