SANTA CRUZ BIOTECHNOLOGY, INC.

ER71 (W-14): sc-164279

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

ER71 (Ets-related protein 71), also known as ETV2 (ETS translocation variant 2) or ETSRP71, is a 341 amino acid member of the ETS protein family. Localized to the nucleus, ER71 contains one ETS DNA-binding domain which binds to DNA sequences containing the consensus pentanucleotide 5'-CGGA[AT]-3'. The gene encoding ER71 maps to human chromosome 19, which consists of around 63 million bases with over 1,400 genes, making up over 2% of human genomic DNA. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fcα receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene Bcl-3.

REFERENCES

1. Zimmermann, W., et al. 1988. Chromosomal localization of the carcinoembryonic antigen gene family and differential expression in various tumors. Cancer Res. 48: 2550-2554.
2. Brown, T.A. and McKnight, S.L. 1992. Specificities of protein-protein and protein-DNA interaction of GABP-α and two newly defined Ets-related proteins. Genes Dev. 6: 2502-2512.
3. LaPoint, S.F., et al. 2000. Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). Adv. Anat. Pathol. 7: 307-321.
4. Buchet-Poyau, K., et al. 2002. Search for the second Peutz-Jeghers syndrome locus: exclusion of the STK13, PRKCG, KLK10, and PSCD2 genes on chromosome 19 and the STK11IP gene on chromosome 2. Cytogenet. Genome Res. 97: 171-178.
5. De Haro, L. and Janknecht, R. 2002. Functional analysis of the transcription factor ER71 and its activation of the matrix metalloproteinase-1 promoter. Nucleic Acids Res. 30: 2972-2979.
6. Moodie, S.J., et al. 2002. Analysis of candidate genes on chromosome 19 in coeliac disease: an association study of the KIR and LILR gene clusters. Eur. J. Immunogenet. 29: 287-291.

CHROMOSOMAL LOCATION

Genetic locus: ETV2 (human) mapping to 19q13.12; Etv2 (mouse) mapping to 7 B1.

SOURCE

ER71 (W-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ER71 of human origin.

RESEARCH USE

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

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-164279 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-164279 X, 200 µg/0.1 ml.

APPLICATIONS

ER71 (W-14) is recommended for detection of ER71 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).

ER71 (W-14) is also recommended for detection of ER71 in additional species, including equine, canine, bovine and porcine.

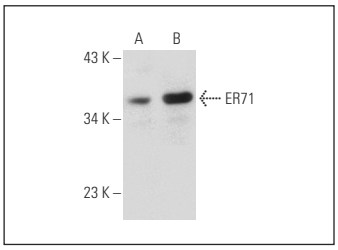
Suitable for use as control antibody for ER71 siRNA (h): sc-97091, ER71 siRNA (m): sc-144918, ER71 shRNA Plasmid (h): sc-97091-SH, ER71 shRNA Plasmid (m): sc-144918-SH, ER71 shRNA (h) Lentiviral Particles: sc-97091-V and ER71 shRNA (m) Lentiviral Particles: sc-144918-V.

ER71 (W-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ER71: 36 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or SK-MEL-28 cell lysate: sc-2236.

DATA



ER71 (W-14): sc-164279. Western blot analysis of ER71 expression in HeLa (**A**) and SK-MEL-28 (**B**) 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.

PROTOCOLS

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