

ENY2 (C-14): sc-87712

BACKGROUND

ENY2 (enhancer of yellow 2 transcription factor homolog) is a 101 amino acid nuclear protein that is a component of the acetylation complex SAGA and belongs to the ENY2 family. The SAGA complex is composed of several proteins, which together activate transcription by remodeling chromatin and regulating histone deubiquitination and acetylation. As a component of the SAGA complex, ENY2 is involved in a subcomplex that deubiquitinates histones H2A and H2B. The entire SAGA complex is directed to specific gene promoters where it is required for transcription. ENY2 is required for nuclear receptor-mediated transactivation. In addition, ENY2 may also be involved in mRNA export as well as accurate chromatin positioning in the nucleus. ENY2 is thought to tether genes into the nuclear periphery. The gene encoding ENY2 maps to human chromosome 8q23.1.

REFERENCES

1. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. *Biochem. Biophys. Res. Commun.* 289: 111-115.
2. Georgieva, S., et al. 2001. The novel transcription factor e(y)2 interacts with TAF(II)40 and potentiates transcription activation on chromatin templates. *Mol. Cell. Biol.* 21: 5223-5231.
3. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
4. McQueen, M.B., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am. J. Hum. Genet.* 77: 582-595.
5. Mossafa, H., et al. 2006. Non-Hodgkin's lymphomas with Burkitt-like cells are associated with c-Myc amplification and poor prognosis. *Leuk. Lymphoma* 47: 1885-1893.
6. Agrelo, R., et al. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. *Proc. Natl. Acad. Sci. USA* 103: 8822-8827.
7. Zhao, Y., et al. 2008. A TFTC/STAGA module mediates histone H2A and H2B deubiquitination, coactivates nuclear receptors, and counteracts heterochromatin silencing. *Mol. Cell* 29: 92-101.

CHROMOSOMAL LOCATION

Genetic locus: ENY2 (human) mapping to 8q23.1; Eny2 (mouse) mapping to 15 B3.2.

SOURCE

ENY2 (C-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of ENY2 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87712 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ENY2 (C-14) is recommended for detection of ENY2 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).

ENY2 (C-14) is also recommended for detection of ENY2 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for ENY2 siRNA (h): sc-77655, ENY2 siRNA (m): sc-144900, ENY2 shRNA Plasmid (h): sc-77655-SH, ENY2 shRNA Plasmid (m): sc-144900-SH, ENY2 shRNA (h) Lentiviral Particles: sc-77655-V and ENY2 shRNA (m) Lentiviral Particles: sc-144900-V.

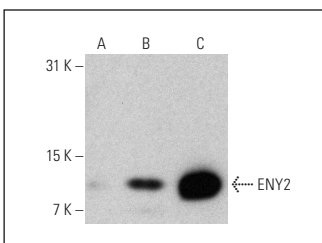
Molecular Weight of ENY2: 12 kDa.

Positive Controls: ENY2 (m): 293T Lysate: sc-120054 or Jurkat whole cell lysate: sc-2204.

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.

DATA



ENY2 (C-14): sc-87712. Western blot analysis of ENY2 expression in non-transfected 293T: sc-117752 (A), mouse ENY2 transfected 293T: sc-120054 (B) and Jurkat (C) 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.