

ENY2 (D-19): sc-87713

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 8.

REFERENCES

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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.
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CHROMOSOMAL LOCATION

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

SOURCE

ENY2 (D-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-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-87713 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ENY2 (D-19) 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), 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).

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.

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) 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.

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.