

ENX-2 (C-12): sc-20349

BACKGROUND

In *Drosophila*, the polycomb (PcG) gene family encodes chromatin proteins that are required for the repression of homeotic loci in embryonic development. PcG proteins work in conjunction with the trithorax-group (trxG) proteins, which activate homeobox gene expression during embryonic development. ENX-1, a mammalian homolog of the *Drosophila* gene enhancer of zeste, is a PcG protein that is ubiquitously expressed during early embryogenesis and becomes restricted to the central and peripheral nervous systems and sites of fetal hematopoiesis during later development. In the adult, ENX-1 is restricted to specific sites, including spleen, testis and placenta. ENX-2 is another mammalian homolog of the *Drosophila* gene enhancer of zeste and contains one SET domain. The gene for human ENX-2 maps to chromosome 17q21.2. ENX-2 expression is ubiquitous in adult and fetal tissue, where it may aid in maintaining heterochromatin stability.

CHROMOSOMAL LOCATION

Genetic locus: EZH1 (human) mapping to 17q21.2; Ezh1 (mouse) mapping to 11 D.

SOURCE

ENX-2 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ENX-2 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-20349 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.

APPLICATIONS

ENX-2 (C-12) is recommended for detection of ENX-2 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).

ENX-2 (C-12) is also recommended for detection of ENX-2 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for ENX-2 siRNA (h): sc-38187, ENX-2 siRNA (m): sc-38188, ENX-2 shRNA Plasmid (h): sc-38187-SH, ENX-2 shRNA Plasmid (m): sc-38188-SH, ENX-2 shRNA (h) Lentiviral Particles: sc-38187-V and ENX-2 shRNA (m) Lentiviral Particles: sc-38188-V.

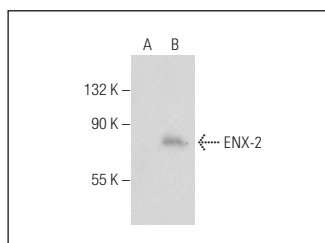
Molecular Weight of ENX-2 isoforms 1/2/3/4/5: 85/86/81/77/69 kDa.

Positive Controls: ENX-2 (m): 293T Lysate: sc-125300.

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



ENX-2 (C-12): sc-20349. Western blot analysis of ENX-2 expression in non-transfected: sc-117752 (A) and mouse ENX-2 transfected: sc-125300 (B) 293T whole cell lysates.

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.



Try **ENX-2 (H-4): sc-515817** or **ENX-2 (C-8): sc-398767**, our highly recommended monoclonal alternatives to ENX-2 (C-12).