

LIN-28 (H-44): sc-67266

BACKGROUND

LIN-28 is a highly conserved, RNA-binding, cytoplasmic protein. It consists of a cold shock domain and retroviral-type (CCHC) zinc finger motifs that were first identified in *Caenorhabditis elegans*. LIN-28 controls the timing of events during embryonic development and is readily expressed in embryos, embryonic stem cells and embryonal carcinoma cells. The presence of LIN-28 persists in some adult tissues including cardiac and skeletal muscle. In differentiating myoblasts, LIN-28 increases protein synthesis efficiency and binds to the growth and differentiation factor IGF-II.

CHROMOSOMAL LOCATION

Genetic locus: LIN28A (human) mapping to 1p36.11, LIN28B (human) mapping to 6q16.3; Lin28a (mouse) mapping to 4 D3, Lin28b (mouse) mapping to 10 B2.

SOURCE

LIN-28 (H-44) is a rabbit polyclonal antibody raised against amino acids 1-44 mapping at the N-terminus of LIN-28 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.

APPLICATIONS

LIN-28 (H-44) is recommended for detection of LIN-28 and, to a lesser extent, LIN-28B 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LIN-28 (H-44) is also recommended for detection of LIN-28 and, to a lesser extent, LIN-28B in additional species, including canine, bovine and porcine.

Molecular Weight of LIN-28: 28 kDa.

Positive Controls: JAR cell lysate: sc-2276, HeLa whole cell lysate: sc-2200 or LIN-28 (h2): 293T Lysate: sc-175922.

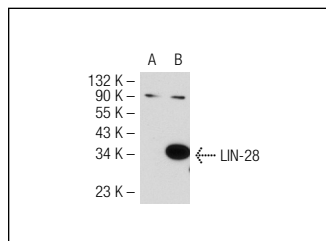
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

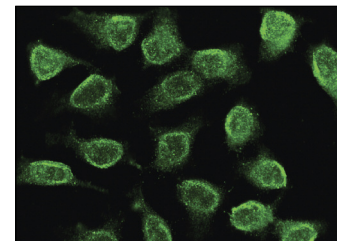
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

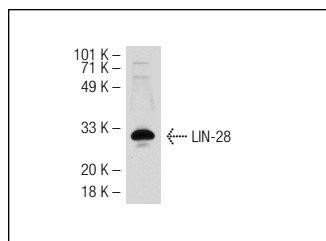
DATA



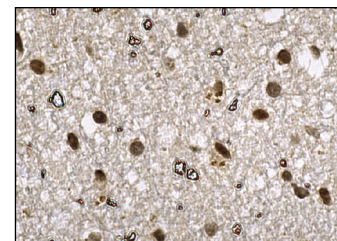
LIN-28 (H-44): sc-67266. Western blot analysis of LIN-28 expression in non-transfected: sc-117752 (A) and human LIN-28 transfected: sc-175922 (B) 293T whole cell lysates.



LIN-28 (H-44): sc-67266. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.



LIN-28 (H-44): sc-67266. Western blot analysis of LIN-28 expression in JAR whole cell lysate.



LIN-28 (H-44): sc-67266. Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing nuclear staining of neuronal and glial cells.

SELECT PRODUCT CITATIONS

- Koch, H., et al. 1979. Diagnosis of acute gastrointestinal hemorrhages. MMW Munch. Med. Wochenschr. 121: 975-976.
- Pessac, B., et al. 2011. Hematopoietic progenitors express embryonic stem cell and germ layer genes. C. R. Biol. 334: 300-306.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **LIN-28 (C-9): sc-374460** or **LIN-28 (6D1F9): sc-293120**, our highly recommended monoclonal alternatives to LIN-28 (H-44).