BACKGROUND

Reelin (or Reln) is a large glycoprotein that is secreted by Cajal-Retzius cells in the forebrain and by granule neurons in the cerebellum. Reelin was shown to be mutated in "reeler" mice, a mutation that is associated with widespread disruption of laminated regions of the brain, leading to impaired motor coordination, tremors and ataxia. Reelin protein expression is complex and changes throughout development. Reelin appears to function upstream of Dab1, in a signaling pathway that controls cell positioning in the developing brain, and is also thought to be a direct effector of the neurotrophin BDNF.

CHROMOSOMAL LOCATION

Genetic locus: RELN (human) mapping to 7q22.1; Reln (mouse) mapping to 5A3.

SOURCE

Reelin (E-5) is a mouse monoclonal antibody raised against amino acids 3239-3460 of Reelin of human origin.

PRODUCT

Each vial contains 200 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Reelin (E-5) is available conjugated to agarose (sc-25346 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-25346 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-25346 PE), fluorescein (sc-25346 FITC), Alexa Fluor® 488 (sc-25346 AF488) or Alexa Fluor® 647 (sc-25346 AF647), 200 µg/ml, for IF, IHC(P) and FCM. Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

APPLICATIONS

Reelin (E-5) is recommended for detection of reelin in mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:500), 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).


Molecular Weight of full length Reelin: 420 kDa.

Molecular Weight of Reelin cleavage products: 310/180 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or rat brain extract: sc-2392

SELECT PRODUCT CITATIONS


PROTOCOLS

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