**BACKGROUND**

The leucine-rich repeat (LRR) is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRRs contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. Leucine-rich protein (LRP130) is a cytoplasmic miRNA-binding protein likely to be involved in the processing of mitochondrial DNA transcripts. Defects in the LRPPRC gene that encodes LRP130 result in the French-Canadian type of Leigh syndrome, a severe neurological disorder characterized by lesions in the subcortical region of the brain. LRP130 also interacts with the low-affinity receptor for leukemia inhibitory factor to produce an intracellular signal cascade.

**CHROMOSOMAL LOCATION**

Genetic locus: LRPPRC (human) mapping to 2p21; Lrpprc (mouse) mapping to 17 E4.

**SOURCE**

LRP130 (F-7) is a mouse monoclonal antibody raised against amino acids 974-1273 mapping at the C-terminus of LRP130 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-166178 X, 200 µg/0.1 ml.

LRP130 (F-7) is available conjugated to agarose (sc-166178 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166178 HRP), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM; and to either Alexa Fluor® 488 (sc-166178 AF488), Alexa Fluor® 546 (sc-166178 AF546), Alexa Fluor® 594 (sc-166178 AF594) or Alexa Fluor® 647 (sc-166178 AF647), 200 µg/ml, for WB (RGB), IF, IHC (P) and FCM; to either Alexa Fluor® 680 (sc-166178 AF680) or Alexa Fluor® 790 (sc-166178 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

LRP130 (F-7) is recommended for detection of LRP130 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for LRP130 siRNA (ht): sc-44734, LRP130 siRNA (m): sc-44735, LRP130 shRNA Plasmid (ht): sc-44734-SH, LRP130 shRNA Plasmid (m): sc-44735-SH, LRP130 shRNA (ht) Lentiviral Particles: sc-44734-V and LRP130 shRNA (m) Lentiviral Particles: sc-44735-V.

LRP130 (F-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of LRP130: 137 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or mouse liver extract: sc-2256.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.