

ApoER2 (H-135): sc-20746

BACKGROUND

ApoER2 (apolipoprotein E receptor 2), also designated LRP8, is a member of the LDL receptor gene family, which includes LDL receptor, LRP, megalin, VLDLR and ApoER2. The LDL receptor family is characterized by a cluster of cysteine-rich class A repeats, epidermal growth factor (EGF)-like repeats, YWTD repeats and an O-linked sugar domain. ApoER2 is expressed in brain and placenta and has several splice variants. ApoER2 is thought to mediate the interaction of extracellular Reelin and cytosolic mDab1 (mammalian disabled protein), which activates a tyrosine kinase. This pathway regulates the migration of neurons along the radial glial fiber network during brain development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LRP8 (human) mapping to 1p32.3; Lrp8 (mouse) mapping to 4 C7.

SOURCE

ApoER2 (H-135) is a rabbit polyclonal antibody raised against amino acids 721-855 of ApoER2 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.

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.

APPLICATIONS

ApoER2 (H-135) is recommended for detection of ApoER2 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).

ApoER2 (H-135) is also recommended for detection of ApoER2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ApoER2 siRNA (h): sc-40097, ApoER2 siRNA (m): sc-40098, ApoER2 shRNA Plasmid (h): sc-40097-SH, ApoER2 shRNA Plasmid (m): sc-40098-SH, ApoER2 shRNA (h) Lentiviral Particles: sc-40097-V and ApoER2 shRNA (m) Lentiviral Particles: sc-40098-V.

Molecular Weight of major band ApoER2: 126 kDa.

Molecular Weight of lesser-reactive bands ApoER2: 167/212 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) 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.

SELECT PRODUCT CITATIONS

1. Zhao, S., Chai, X., Förster, E. and Frotscher, M. 2004. Reelin is a positional signal for the lamination of dentate granule cells. *Development* 131: 5117-5125.
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4. ElAli, A. and Hermann, D.M. 2010. Apolipoprotein E controls ATP-binding cassette transporters in the ischemic brain. *Sci. Signal.* 3: ra72.


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Try **ApoER2 (1A1): sc-293472**, our highly recommended monoclonal alternative to ApoER2 (H-135).