

vezatin (H-160): sc-50434

BACKGROUND

Vezatin is a single transmembrane domain containing mammalian adhesion protein that is ubiquitously expressed at adherens cell-cell junctions. Adherens junctions (zonula adherens) are cell-cell junctions that host microfilaments and/or intermediate filaments, which can coordinate with focal adhesion proteins and mediate tissue organization and morphogenesis. Vezatin interacts with Actin filamentous networks and anchors myosin VIIA to cadherin complexes, thereby creating a network between adherens junctions and the Actin cytoskeleton. This may enhance cell-cell adhesion characteristics and influence cadherin-based signals. Vezatin is concentrated in the fibrillar links interconnecting the bases of adjacent stereocilia in the inner ear sensory hair cells and may mediate proper positioning of hair cell stereocilia. Loss of a functional vezatin-myosin VIIA complex at both the adherent junctions and the base of the stereocilia is likely to account for the splaying out of the stereocilia observed in *Myo7a*^{-/-} animals. Vezatin recruitment to adherens junctions implicates the C-terminal region of α -catenin.

CHROMOSOMAL LOCATION

Genetic locus: VEZT (human) mapping to 12q22; Vezt (mouse) mapping to 10 C2.

SOURCE

vezatin (H-160) is a rabbit polyclonal antibody raised against amino acids 1-160 mapping within an N-terminal extracellular domain of vezatin of human origin.

PRODUCT

Each vial contains 200 μ g 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.

APPLICATIONS

vezatin (H-160) is recommended for detection of vezatin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

vezatin (H-160) is also recommended for detection of vezatin in additional species, including canine, bovine and porcine.

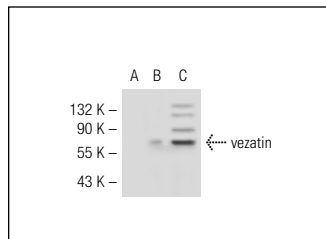
Suitable for use as control antibody for vezatin siRNA (h): sc-43199, vezatin siRNA (m): sc-60019, vezatin shRNA Plasmid (h): sc-43199-SH, vezatin shRNA Plasmid (m): sc-60019-SH, vezatin shRNA (h) Lentiviral Particles: sc-43199-V and vezatin shRNA (m) Lentiviral Particles: sc-60019-V.

Molecular Weight of vezatin: 89 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.

DATA



vezatin (H-160): sc-50434. Western blot analysis of vezatin expression in non-transfected 293T: sc-117752 (A), human vezatin transfected 293T: sc-117118 (B) and HeLa (C) 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.

MONOS
Satisfaction
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Try **vezatin (B-1): sc-271347** or **vezatin (A-3): sc-271369**, our highly recommended monoclonal alternatives to vezatin (H-160).