

Scrib (H-300): sc-28737

BACKGROUND

Drosophila melanogaster genes, which are categorized based on the type of protein for which they encode, represent six major classifications, including intracellular signaling proteins, transmembrane proteins, RNA binding proteins, secreted factors, transcription regulators (basic helix-loop-helix, homeodomain containing, zinc-finger containing and chromatin associated) and other functional proteins. Morphogenesis and cell differentiation in *Drosophila* requires accurate control of cell division. Discs large (dlg), Scribble (Scrib) and Lethal giant larvae (LGL) tumor suppressor proteins regulate multiple aspects of neuroblast asymmetric cell division. Dlg/Scrib/LGL proteins show apical cortical enrichment at prophase/metaphase and have a uniform cortical distribution. Mutations in the genes encoding multi-PDZ (PSD-95, discs-large and ZO-1) and the leucine-rich-repeat protein Scrib cause aberrant cell shapes and the loss of monolayer organization of embryonic epithelia. The human homolog, hScrib, is intracellularly localized to the vertebrate tight junction, which functions to correctly place adherens junctions. The PDZ domains of Scrib are predicted to bind to the consensus S/TXV at the C-terminus of proteins. PDZ domain proteins have been implicated at several different sites of the protein trafficking pathway, suggesting that Scrib is required for the localization of several epithelial determinants.

CHROMOSOMAL LOCATION

Genetic locus: SCRIB (human) mapping to 8q24.3; Scrib (mouse) mapping to 15 D3.

SOURCE

Scrib (H-300) is a rabbit polyclonal antibody raised against amino acids 1331-1630 (deletion 1444-1504) mapping at the C-terminus of Scrib 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

Scrib (H-300) is recommended for detection of Scrib 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).

Suitable for use as control antibody for Scrib siRNA (h): sc-36466, Scrib siRNA (m): sc-36467, Scrib shRNA Plasmid (h): sc-36466-SH, Scrib shRNA Plasmid (m): sc-36467-SH, Scrib shRNA (h) Lentiviral Particles: sc-36466-V and Scrib shRNA (m) Lentiviral Particles: sc-36467-V.

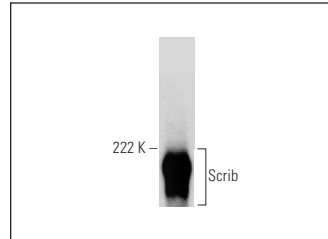
Molecular Weight of Scrib: 210 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

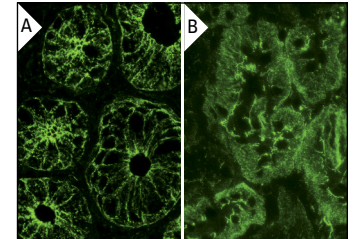
STORAGE

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

DATA



Scrib (H-300): sc-28737. Western blot analysis of Scrib expression in HeLa whole cell lysate.



Scrib (H-300): sc-28737. Immunofluorescence staining of normal mouse intestine frozen section showing membrane staining (A). Immunofluorescence staining of normal mouse kidney frozen section showing cytoplasmic staining (B).

SELECT PRODUCT CITATIONS

- Arpin-André, C., et al. 2007. The PDZ domain-binding motif of the human T cell leukemia virus type 1 tax protein induces mislocalization of the tumor suppressor hScrib in T cells. *J. Biol. Chem.* 282: 33132-33141.
- Yeh, J.H., et al. 2008. Regulation of a late phase of T cell polarity and effector functions by CRTAM. *Cell* 132: 846-859.
- Phua, D.C., et al. 2009. Vimentin regulates scribble activity by protecting it from proteasomal degradation. *Mol. Biol. Cell* 20: 2841-2855.
- Paudyal, A., et al. 2010. The novel mouse mutant, chuzhoi, has disruption of Ptk7 protein and exhibits defects in neural tube, heart and lung development and abnormal planar cell polarity in the ear. *BMC Dev. Biol.* 10: 87.
- Hartleben, B., et al. 2012. Role of the polarity protein scribble for podocyte differentiation and maintenance. *PLoS ONE* 7: e36705.
- Eastburn, D.J., et al. 2012. Scrib regulates HGF-mediated epithelial morphogenesis and is stabilized by Sgt1-HSP90. *J. Cell Sci.* 125: 4147-4157.
- Afelik, S., et al. 2015. Wnt7b is required for epithelial progenitor growth and operates during epithelial-to-mesenchymal signaling in pancreatic development. *Dev. Biol.* 399: 204-217.

RESEARCH USE

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


 MONOS
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Try **Scrib (D-2): sc-374139** or **Scrib (C-6): sc-55543**, our highly recommended monoclonal alternatives to Scrib (H-300).