Inscuteable (dC-17): sc-27388



The Power to Question

BACKGROUND

Asymmetric cell division requires the orientation of mitotic spindles along the cell-polarity axis. In *Drosophila* neuroblasts, this involves the interaction of the proteins Inscuteable and partner of Inscuteable. Inscuteable is required to mediate and coordinate basal protein localization with mitotic spindle orientation. A scute is defined as a thin platelike structure.

REFERENCES

- 1. Doe, C.Q. 1996. Spindle orientation and asymmetric localization in *Drosophila*: both Inscuteable? Cell 86: 695-697.
- Kraut, R., Chia, W., Jan, L.Y., Jan, Y.N. and Knoblich, J.A. 1996. Role of Inscuteable in orienting asymmetric cell divisions in *Drosophila*. Nature 383: 50-55.
- Tio, M., Zavortink, M., Yang, X. and Chia, W. 1999. A functional analysis
 of Inscuteable and its roles during *Drosophila* asymmetric cell divisions.
 J. Cell. Sci. 112: 1541-1551.
- Du, Q., Taylor, L., Compton, D.A. and Macara, I.G. 2001. A mammalian partner of Inscuteable binds NuMA and regulates mitotic spindle organization. Nat. Cell Biol. 3: 1069-1075.
- 5. Orgogozo, V., Schweisguth, F. and Bellaiche, Y. 2001. Lineage, cell polarity and Inscuteable function in the peripheral nervous system of the *Drosophila* embryo. Development 128: 631-643.
- Ashraf, S.I. and Ip, Y.T. 2001. The snail protein family regulates neuroblast expression of Inscuteable and string, genes involved in asymmetry and cell division in *Drosophila*. Development 128: 4757-4767.
- 7. Yu, F., Ong, C.T., Chia, W. and Yang, X. 2002. Membrane targeting and asymmetric localization of *Drosophila* partner of Inscuteable are discrete steps controlled by distinct regions of the protein. Mol. Cell. Biol. 22: 4230-4240.
- Popichenko, D. and Paululat, A. 2004. Cell fate decisions in the *Drosophila* dorsal vessel depend on the multiadapter protein Inscuteable. Genesis 40: 218-222.

SOURCE

Inscuteable (dC-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Inscuteable of *Drosophila melanogaster* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-27388 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

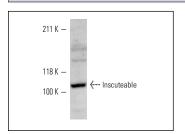
Inscuteable (dC-17) is recommended for detection of Inscuteable of *Drosophila melanogaster* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Positive Controls: Schneider's Drosophila line 2 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Inscuteable (dC-17): sc-27388. Western blot analysis of Inscuteable expression in Schneider's *Drosophila* line 2 whole cell lysate.

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.



Try **Inscuteable (C-8):** sc-390728, our highly recommended monoclonal alternative to Inscuteable (dC-17).

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