Dullard (L-19): sc-82584



The Power to Question

BACKGROUND

In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions, including division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases. Dullard, also known as NET56, is a 244 amino acid single-pass membrane protein that localizes to both the nucleus and the endoplasmic reticulum and contains one FCP1 homology domain. Functioning as a serine/ threonine phosphatase, Dullard catalyzes the dephosphorylation of target proteins and is thought to be required for proper nuclear membrane morphology. Human Dullard shares 92% sequence identity with its zebrafish counterpart, suggesting a conserved role between species.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DULLARD (human) mapping to 17p13.1; Dullard (mouse) mapping to 11 B4.

SOURCE

Dullard (L-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Dullard of human 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-82584 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.

RESEARCH USE

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

APPLICATIONS

Dullard (L-19) is recommended for detection of Dullard of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Dullard siRNA (h): sc-77190, Dullard siRNA (m): sc-77191, Dullard shRNA Plasmid (h): sc-77190-SH, Dullard shRNA Plasmid (m): sc-77191-SH, Dullard shRNA (h) Lentiviral Particles: sc-77190-V and Dullard shRNA (m) Lentiviral Particles: sc-77191-V.

Molecular Weight of Dullard: 28 kDa.

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) 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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