



## Midline-2 (E-19): sc-55129

### BACKGROUND

Midline-2 (midline defect 2, tripartite motif-containing protein 1) is a 715 amino acid protein encoded by the human gene MID2. Midline-2 belongs to the TRIM/RBCC family and contains two B box-type zinc fingers, one B30.2/SPRY domain, one COS domain, one Fibronectin type-III domain and one RING-type zinc finger. Midline-2 is a cytoplasmic protein found as a homodimer or heterodimer with Midline-1. It also interacts with IGBP1 (lymphocyte signaling protein A4). Dimerization is mediated by the tripartite motif, RBCC (RING- and B box-type zinc fingers and coiled-coil domains), and microtubule association is dependent on the C-terminal B30.2 domain. Midline-2 is expressed at low levels in fetal kidney and lung, and in adult prostate, ovary and small intestine.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: MID2 (human) mapping to Xq22.3; Mid2 (mouse) mapping to X F1.

### RESEARCH USE

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

### SOURCE

Midline-2 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Midline-2 of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55129 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Midline-2 (E-19) is recommended for detection of Midline-2 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).

Midline-2 (E-19) is also recommended for detection of Midline-2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Midline-2 siRNA (h): sc-75784, Midline-2 siRNA (m): sc-75785, Midline-2 shRNA Plasmid (h): sc-75784-SH, Midline-2 shRNA Plasmid (m): sc-75785-SH, Midline-2 shRNA (h) Lentiviral Particles: sc-75784-V and Midline-2 shRNA (m) Lentiviral Particles: sc-75785-V.

Molecular Weight of Midline-2: 81 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.

### STORAGE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.