

## Raftlin (P-19): sc-103140

### BACKGROUND

Membrane microdomains known as lipid rafts are implicated in B cell activation during B cell receptor (BCR) signal initiation. Raftlin, also known as RFTN1 (Raftlin, lipid raft linker 1), cell migration-inducing gene 2 protein, PIB10, PIG9 or MIG2, is a 578 amino acid cell membrane protein and lipid anchor that is essential for raft cell assembly and maintenance. A member of the Raftlin family, Raftlin modulates B cell antigen receptor-mediated signaling, TCR signals, and is involved in T cell-mediated immune responses. The gene encoding Raftlin maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: RFTN1 (human) mapping to 3p24.3.

### SOURCE

Raftlin (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Raftlin 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.

Blocking peptide available for competition studies, sc-103140 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Raftlin (P-19) is recommended for detection of Raftlin of 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 Raftlin siRNA (h): sc-78194, Raftlin shRNA Plasmid (h): sc-78194-SH and Raftlin shRNA (h) Lentiviral Particles: sc-78194-V.

Molecular Weight of Raftlin: 63 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.

### RESEARCH USE

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

### PROTOCOLS

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



Try **Raftlin (H-3): sc-515075**, our highly recommended monoclonal alternative to Raftlin (P-19).