

## B9D2 (S-13): sc-167175

### BACKGROUND

B9D2 (B9 domain-containing protein 2) is a 175 amino acid protein belonging to the B9 domain protein family. Localized to the cytoskeleton and the nucleus, B9D2 may play a role in ciliogenesis. B9D2 contains one B9 domain and has been found to interact with  $\gamma$  tubulin. The gene that encodes B9D2 maps to human chromosome 19, which consists of around 63 million bases with over 1,400 genes, making up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: B9D2 (human) mapping to 19q13.2; B9d2 (mouse) mapping to 7 A3.

### SOURCE

B9D2 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of B9D2 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-167175 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

B9D2 (S-13) is recommended for detection of B9D2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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); non cross-reactive with B9D1.

B9D2 (S-13) is also recommended for detection of B9D2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for B9D2 siRNA (h): sc-97814, B9D2 siRNA (m): sc-141461, B9D2 shRNA Plasmid (h): sc-97814-SH, B9D2 shRNA Plasmid (m): sc-141461-SH, B9D2 shRNA (h) Lentiviral Particles: sc-97814-V and B9D2 shRNA (m) Lentiviral Particles: sc-141461-V.

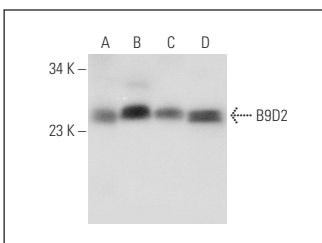
Molecular Weight of B9D2: 19 kDa.

Positive Controls: mouse spleen extract: sc-2391, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

### 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



B9D2 (S-13): sc-167175. Western blot analysis of B9D2 expression in mouse spleen tissue extract (A) and HeLa (B), Jurkat (C) and Hep G2 (D) whole cell lysates.

### 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.