



## PSD2 (K-13): sc-136819

### BACKGROUND

PSD2 (pleckstrin and SEC7 domain containing 2) is a 771 amino acid single-pass membrane protein belonging to the PSD family. PSD2 contains one PH (pleckstrin homology) domain and one SEC7 domain, suggesting a function in guanine nucleotide exchange. Proteins containing pleckstrin homology domains, which consist of approximately 120 amino acids, are known to be involved in intracellular signaling or as constituents of the cytoskeleton. The gene encoding PSD2 is located on human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PSD2 (human) mapping to 5q31.3; Psd2 (mouse) mapping to 18 B2.

### SOURCE

PSD2 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PSD2 of human origin.

### RESEARCH USE

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

### 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-136819 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PSD2 (K-13) is recommended for detection of PSD2 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); non cross-reactive with other PSD family members.

Suitable for use as control antibody for PSD2 siRNA (h): sc-91958, PSD2 siRNA (m): sc-152537, PSD2 shRNA Plasmid (h): sc-91958-SH, PSD2 shRNA Plasmid (m): sc-152537-SH, PSD2 shRNA (h) Lentiviral Particles: sc-91958-V and PSD2 shRNA (m) Lentiviral Particles: sc-152537-V.

Molecular Weight of PSD2: 85 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.