

PMS2L3 (S-16): sc-324213

BACKGROUND

PMS2L3 (postmeiotic segregation increased 2-like protein 3), also known as PMS2P3, PMS2L9 (postmeiotic segregation increased 2-like protein 9), PMS5 (postmeiotic segregation increased protein 5) or PMSR3, is a 168 amino acid protein that contains one KRAB domain and belongs to the DNA mismatch repair mutL/hexB family. Existing as three alternatively spliced isoforms, PMS2L3 participates in ATP binding and in nucleic acid binding. PMS2L3 may also function as a potential prognostic marker for overall survival in pancreatic cancer patients. The gene that encodes PMS2L3 maps to human chromosome 7q11.23. Chromosome 7 is approximately 158 million bases long, encodes over 1,000 genes and makes up approximately 5% of the human genome. Deletions of portions of the q arm of chromosome 7 are linked to myeloid disorders, including acute myelogenous leukemia and myelodysplasia.

REFERENCES

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7. Shpakovskii, D.G., et al. 2006. Human PMS2 gene family: origin, molecular evolution, and biological implications. *Dokl. Biochem. Biophys.* 408: 175-179.
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CHROMOSOMAL LOCATION

Genetic locus: PMS2P3 (human) mapping to 7q11.23.

SOURCE

PMS2L3 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PMS2L3 of human origin.

STORAGE

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

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-324213 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PMS2L3 (S-16) is recommended for detection of PMS2L3 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); non cross-reactive with PMS2L2, PMS2L12 or PMS7.

Suitable for use as control antibody for PMS2L3 siRNA (h): sc-106754, PMS2L3 shRNA Plasmid (h): sc-106754-SH and PMS2L3 shRNA (h) Lentiviral Particles: sc-106754-V.

Molecular Weight of PMS2L3 isoform 1/2/3: 19/19/13 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.

RESEARCH USE

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

PROTOCOLS

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