

SPATA17 (D-17): sc-165542

BACKGROUND

SPATA17 (spermatogenesis-associated protein 17), also known as IQCH (IQ motif containing H), is a 361 amino acid cytoplasmic protein that contains 3 IQ domains. The gene that encodes SPATA17 consists of more than 240,000 bases and maps to human chromosome 1q41. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up approximately 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1q41.

REFERENCES

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2. Plasilova, M., et al. 2004. Exclusion of an extracolonic disease modifier locus on chromosome 1p33-36 in a large Swiss familial adenomatous polyposis kindred. *Eur. J. Hum. Genet.* 12: 365-371.
3. Deng, Y., et al. 2006. Expression and identification of a novel apoptosis gene Spata17 (MSRG-11) in mouse spermatogenic cells. *Acta Biochim. Biophys. Sin.* 38: 37-45.
4. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611032. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Betarbet, R., et al. 2008. Fas-associated factor 1 and Parkinson's disease. *Neurobiol. Dis.* 31: 309-315.

CHROMOSOMAL LOCATION

Genetic locus: SPATA17 (human) mapping to 1q41; Spata17 (mouse) mapping to 1 H5.

SOURCE

SPATA17 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPATA17 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-165542 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

SPATA17 (D-17) is recommended for detection of SPATA17 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 other SPATA family members.

SPATA17 (D-17) is also recommended for detection of SPATA17 in additional species, including equine, canine and bovine.

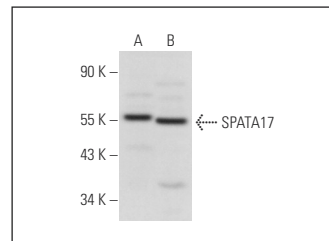
Suitable for use as control antibody for SPATA17 siRNA (h): sc-88103, SPATA17 siRNA (m): sc-153714, SPATA17 shRNA Plasmid (h): sc-88103-SH, SPATA17 shRNA Plasmid (m): sc-153714-SH, SPATA17 shRNA (h) Lentiviral Particles: sc-88103-V and SPATA17 shRNA (m) Lentiviral Particles: sc-153714-V.

Molecular Weight (predicted) of SPATA17: 43 kDa.

Molecular Weight (observed) of SPATA17: 55 kDa.

Positive Controls: mouse brain extract: sc-2253 or Jurkat whole cell lysate: sc-2204.

DATA



SPATA17 (D-17): sc-165542. Western blot analysis of SPATA17 expression in mouse brain tissue extract (A) and Jurkat whole cell lysate (B).

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.



Try **SPATA17 (D-8): sc-515063**, our highly recommended monoclonal alternative to SPATA17 (D-17).