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FAM163A (h): 293T Lysate: sc-175532

BACKGROUND

FAM163A, also known as C1orf76 or NDSP (neuroblastoma-derived secretory protein), is a 167 amino acid single-pass membrane protein that belongs to the FAM163 family. Due to the high expression in neuroblastoma, FAM163A may be used as a maker for metastasis in bone marrow. The gene encoding FAM163A maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

1. Eudy, J.D., Weston, M.D., Yao, S., Hoover, D.M., Rehm, H.L., Ma-Edmonds, M., Yan, D., Ahmad, I., Cheng, J.J., Ayuso, C., Cremers, C., Davenport, S., Moller, C., Talmadge, C.B., Beisel, K.W., Tamayo, M., Morton, C.C., Swaroop, A., Kimberling, W.J. and Sumegi, J. 1998. Mutation of a gene encoding a protein with extracellular matrix motifs in Usher syndrome type IIa. *Science* 280: 1753-1757.
2. Tayebi, N., Callahan, M., Madike, V., Stubblefield, B.K., Orvisky, E., Krasnewich, D., Fillano, J.J. and Sidransky, E. 2001. Gaucher disease and parkinsonism: a phenotypic and genotypic characterization. *Mol. Genet. Metab.* 73: 313-321.
3. Plasilova, M., Russell, A.M., Wanner, A., Wolf, A., Dobbie, Z., Müller, H.J. and Heinimann, K. 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.
4. Vasudevan, S.A., Russell, H.V., Okcu, M.F., Burlingame, S.M., Liu, Z.J., Yang, J. and Nuchtern, J.G. 2007. Neuroblastoma-derived secretory protein messenger RNA levels correlate with high-risk neuroblastoma. *J. Pediatr. Surg.* 42: 148-152.

CHROMOSOMAL LOCATION

Genetic locus: FAM163A (human) mapping to 1q25.2.

PRODUCT

FAM163A (h): 293T Lysate represents a lysate of human FAM163A transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

FAM163A (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive FAM163A antibodies. Recommended use: 10-20 µl per lane.

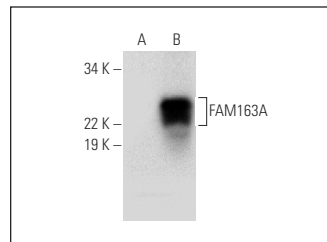
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FAM163A (E-7): sc-398152 is recommended as a positive control antibody for Western Blot analysis of enhanced human FAM163A expression in FAM163A transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

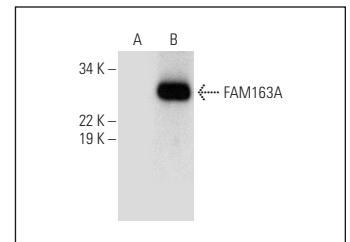
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



FAM163A (E-7): sc-398152. Western blot analysis of FAM163A expression in non-transfected: sc-117752 (A) and human FAM163A transfected: sc-175532 (B) 293T whole cell lysates.



FAM163A (B-8): sc-390936. Western blot analysis of FAM163A expression in non-transfected: sc-117752 (A) and human FAM163A transfected: sc-175532 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.