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SANTA CRUZ BIOTECHNOLOGY, INC.

AQP8 (m): 293T Lysate: sc-126431

BACKGROUND

Human AQP8 (aquaporin 8) is a 261 amino acid protein that contains six membrane-spanning domains, two conserved Asn-Pro-Ala (NPA) motifs, which are characteristic of MIP (major intrinsic protein) family members, and three N-linked glycosylation sites. Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. Many isoforms of aquaporin have been identified in mammals, designated AQP0 through AQP10. Aquaporins are widely distributed and it is not uncommon for more than one type of AQP to be present in the same cell. Although most aquaporins are only permeable to water, AQP3, AQP7, AQP9 and one of the two AQP10 transcripts are also permeable to urea and glycerol. Aquaporins are involved in renal water absorption, generation of pulmonary secretions, lacrimation and the secretion and reabsorption of cerebrospinal fluid and aqueous humor.

REFERENCES

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2. Echevarria, M. and Ilundain, A.A. 1998. Aquaporins. J. Physiol. Biochem. 54: 107-118.
3. Koyama, N., Ishibashi, K., Kuwahara, M., Inase, N., Ichioka, M., Sasaki, S. and Marumo, F. 1998. Cloning and functional expression of human aquaporin 8 cDNA and analysis of its gene. Genomics 54: 169-172.
4. Viggiano, L., Rocchi, M., Svelto, M. and Calamita, G. 1999. Assignment of the aquaporin-8 water channel gene (AQP8) to human chromosome 16p12. Cytogenet. Cell Genet. 84: 208-210.
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6. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 603750. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

CHROMOSOMAL LOCATION

Genetic locus: Aqp8 (mouse) mapping to 7 F3.

PRODUCT

AQP8 (m): 293T Lysate represents a lysate of mouse AQP8 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

PROTOCOLS

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

APPLICATIONS

AQP8 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive AQP8 antibodies. Recommended use: 10-20 µl per lane.

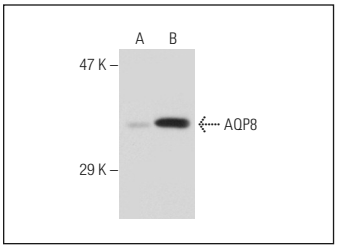
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

AQP8 (14-Z): sc-81870 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse AQP8 expression in AQP8 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



AQP8 (14-Z): sc-81870. Western blot analysis of AQP8 expression in non-transfected: sc-117752 (**A**) and mouse AQP8 transfected: sc-126431 (**B**) 293T whole cell lysates.

RESEARCH USE

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