# 4.1N (h5): 293T Lysate: sc-176779



The Power to Question

# **BACKGROUND**

4.1N protein (band 4.1-like protein 1, neuronal protein 4.1) binds and stabilizes D2 and D3 dopamine receptors at the neuronal plasma membrane. 4.1 adapter proteins mediate interactions between the cytoskeleton and the overlying plasma membrane. These multiple 4.1N interactions with the cell cytoskelton and plasma membrane may confer stability and plasticity to neuronal membrane. The 4.1N protein is expressed highly in the brain, and is found at lower levels in heart, kidney, pancreas, placenta, lung and skeletal muscle. Four homologous genes (4.1R, 4.1G, 4.1N, and 4.1B) undergo complex alternative splicing. The distribution of these 4.1 spliced gene products along the nephron suggests their involvement in targeting of selected transmembrane proteins in kidney epithelium and, therefore, in regulation of specific kidney functions.

# **REFERENCES**

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- Ramez, M., et al. 2003. Distinct distribution of specific members of protein 4.1 gene family in the mouse nephron. Kidney Int. 63: 1321-1337.
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#### **CHROMOSOMAL LOCATION**

Genetic locus: EPB41L1 (human) mapping to 20q11.23.

# **PRODUCT**

4.1N (h5): 293T Lysate represents a lysate of human 4.1N transfected 293T cells and is provided as  $100 \mu g$  protein in  $200 \mu l$  SDS-PAGE buffer.

#### **APPLICATIONS**

4.1N (h5): 293T Lysate is suitable as a Western Blotting positive control for human reactive 4.1N antibodies. Recommended use: 10-20  $\mu$ l per lane.

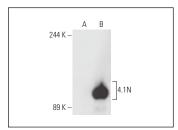
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

4.1N (4): sc-135817 is recommended as a positive control antibody for Western Blot analysis of enhanced human 4.1N expression in 4.1N transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

# **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.

# DATA



4.1N (4): sc-135817. Western blot analysis of 4.1N expression in non-transfected: sc-117752 (**A**) and human 4.1N transfected: sc-176779 (**B**) 293T whole cell lysates.

#### **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.

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