P2X6 (h): 293T Lysate: sc-112163



The Power to Question

BACKGROUND

The P2X receptor family is comprised of ligand-gated ion channels that allow for the increased permeability of calcium into the cell in response to extracellular ATP. The seven P2X receptors, P2X1-P2X7, form either homomeric or heteromeric channels or both. They are characterized by intracellular amino-and carboxy-termini. P2X receptors are expressed in a wide variety of tissues, including neurons, prostate, bladder, pancreas, colon, testis and ovary. The major function of the P2X receptors is to mediate synaptic transmissions between neurons and to other tissues via the binding of extracellular ATP, which acts as a neurotransmitter. The P2X receptors may be involved in the onset of necrosis or apoptosis after prolonged exposure to high concentrations of extracellular ATP.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: P2RX6 (human) mapping to 22q11.21.

PRODUCT

P2X6 (h): 293T Lysate represents a lysate of human P2X6 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

P2X6 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive P2X6 antibodies. Recommended use: 10-20 µl per lane.

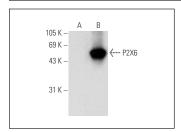
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

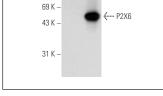
P2X6 (D-1): sc-166013 is recommended as a positive control antibody for Western Blot analysis of enhanced human P2X6 expression in P2X6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

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

DATA





105 K -

P2X6 (D-1): sc-166013. Western blot analysis of P2X6 expression in non-transfected: sc-117752 (**A**) and human P2X6 transfected: sc-112163 (**B**) 293T whole

P2X6 (H-6): sc-166014. Western blot analysis of P2X6 expression in non-transfected: sc-117752 (**A**) and human P2X6 transfected: sc-112163 (**B**) 293T whole call heater.

RESEARCH USE

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

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