SANTA CRUZ BIOTECHNOLOGY, INC.

mAChR M4 (220-394): sc-4505 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The muscarinic acetylcholine receptors (mAChR) mediate a variety of cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels. The mAChRs transduce signals by coupling to G proteins, which then modulate several downstream effector proteins and ion channels. Five mAChR subtypes have been identified, designated M1 to M5. The five receptor subtypes show distinct patterns of tissue distribution, as well as distinct pharmacological and functional properties. The amino acid sequence of each mAChR subtype reflects a structure that is characteristic of G protein-coupled receptors, consisting of seven highly conserved transmembrane segments and a large intracellular region unique to each subtype, which constitutes the effector-coupling domain

REFERENCES

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SOURCE

mAChR M4 (220-394) is expressed in *E. coli* as a 42 kDa tagged fusion protein corresponding to amino acids 220-394 of mAChR M4 of human origin.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

PRODUCT

mAChR M4 (220-394) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

mAChR M4 (220-394) is suitable as a Western blotting control for sc-9109.

RESEARCH USE

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