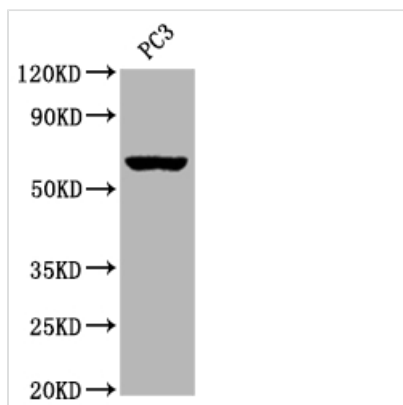




CHRM3 Recombinant Monoclonal Antibody

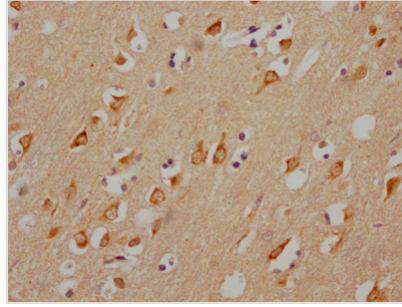
Product Code	CSB-RA827961A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P20309
Immunogen	A synthesized peptide derived from human Muscarinic Acetylcholine Receptor M3
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	CHRM3
Clone No.	2D4

Image



Western Blot

Positive WB detected in:PC3 whole cell lysate
 All lanes: Muscarinic Acetylcholine Receptor M3 antibody at 1:2000
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 67 kDa
 Observed band size: 67 kDa



IHC image of CSB-RA827961A0HU diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

CHRM3 codes for M3-muscarinic receptor (M3R), the major mAChR expressed on smooth muscle and drives contractile responses in the ileum. The M3R receptor has been identified as the bonafide receptor responsible for the cholinergic regulation of glucose-induced insulin release. M3R has also been demonstrated to promote insulin release by decreasing the activity of the mitogen-activated protein kinase p38, which inhibits PKD1 in β cells. Cholinergic signaling via the M3R is necessary for optimal Th1 and Th2 adaptive immunity to infection.

CUSABIO designed the vector clones for the expression of a recombinant CHRM3 antibody in mammalian cells. The vector clones were obtained by inserting the CHRM3 antibody heavy and light chains into the plasma vectors. The recombinant CHRM3 antibody was purified from the culture medium through Affinity-chromatography. It can be used to detect CHRM3 protein from Human in the ELISA, WB, IHC.