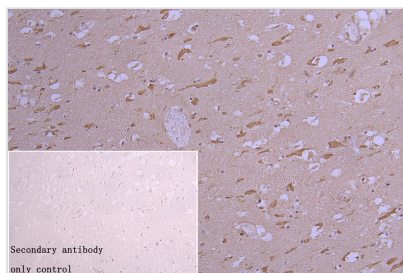




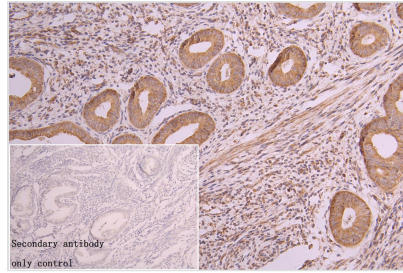
# CHRM3 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA827961A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P20309
<b>Immunogen</b>	A synthesized peptide derived from human Muscarinic Acetylcholine Receptor M3
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:200-1:500
<b>Relevance</b>	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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Neuroscience
<b>Gene Names</b>	CHRM3
<b>Clone No.</b>	2D4

## Image



IHC image of CSB-RA827961A0HU diluted at 1:300 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°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody



IHC image of CSB-RA827961A0HU diluted at 1:300 and staining in paraffin-embedded human endometrial cancer 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°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody

## 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  $\beta$  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.