

## Mouse Cholinergic Receptor, Muscarinic 3 (CHRM3) ELISA Kit-Sandwich

**Cat. No.:** EK5F746

**Product Type:** Animal Immunoassay Kits

**Size:** 48T;96T

### Product Overview

BioVenic Mouse Cholinergic Receptor, Muscarinic 3 (CHRM3) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse CHRM3 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Cholinergic Receptor, Muscarinic 3 (CHRM3).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.32-20 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

### Target Information

Muscarinic acetylcholine receptor M3 mediates various cellular responses, such as the inhibition of adenylate cyclase, the breakdown of phosphoinositides, and the modulation of potassium channels through G proteins. In mice, Chrm3 plays extensive and complex roles across multiple systems, including the pancreas, intestine, cancer, and cardiovascular systems. In mice infected with *Nippostrongylus brasiliensis*, Chrm3 deficiency results in increased intestinal barrier permeability and a weakened mucosal immune response, delaying parasite clearance. In cases of colon cancer and glioblastoma, Chrm3 expression is linked to tumor proliferation and invasiveness. Studies have demonstrated that knocking out or inhibiting Chrm3 can significantly reduce tumor growth and volume.

Target/Biomarker	Mouse CHRM3
Target Synonym	CHR-M3; HM3; M-AChRM3; Muscarinic Acetylcholine Receptor M3; Cholinergic Receptor; Muscarinic 3

Gene ID [12671](#)

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UniProt ID [Q9ERZ3](#)

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### **Shipping and Storage**

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.