

Product datasheet for **AM26189PU-N**

CHRM2 (168-192) Mouse Monoclonal Antibody [Clone ID: B8E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B8E5
Applications:	ELISA, FN, IF, IHC, WB
Recommended Dilution:	Flow Cytometry. Functional Assays (Agonist-like antibody). Immunoassay. Immunofluorescence. Western blot (<i>Non-Reduced Conditions</i> , specific bands of ~55, 63 and 65 kDa). The typical starting working dilution is 1/50.
Reactivity:	Guinea Pig, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human second extracellular loop residues 168-192
Specificity:	The monoclonal antibody <i>B8E5</i> recognizes Human muscarinic acetylcholine receptor M2 (M2 receptor), a G protein-coupled cardiovascular receptor of ~55 kDa. Monoclonal antibody <i>B8E5</i> inhibits the β -adrenergic L-type Ca^{2+} currents through activation of the muscarinic acetylcholine receptor M2. It suggests that the antibody acts not via the classical pathway of decreasing cAMP, but rather by increasing cGMP. Monoclonal antibody <i>B8E5</i> acts by functional dimerization of the receptor resulting in stabilization of the constitutive active receptor dimers and paradoxically induces a small decrease in carbachol affinity for the M2 receptor. It recognizes the pentapeptide VRTVE (aa 168-172) corresponding to the N-terminal part of the second extracellular loop of the Human M2 receptor.
Formulation:	PBS State: Purified State: Liquid 0.2 μ m filtered Ig fraction Stabilizer: 0.1% BSA
Concentration:	lot specific
Purification:	Protein G Chromatography



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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	cholinergic receptor muscarinic 2
Database Link:	Entrez Gene 1129 Human P08172
Background:	<p>This receptor is an integral membrane protein consisting of seven membrane spanning α-helices linked together by extra- and intracellular loops that form a pharmacophore pocket. Autoantibodies directed against cardiovascular G protein-coupled receptors functionally interfering with the target have been described in several cardiovascular diseases. The M2 receptor is the predominant subtype of muscarinic receptors present in the heart of mammalian species. 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 adenylate cyclase inhibition.</p>
Synonyms:	CHRM2, mAChR M2, mAChR-M2