# Anti-Human Muscle Acetylcholine Receptor [mAb 192] Standard Size Ab00431-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Fc Silent™, Kappa
**Clone Number:** mAb 192
**Alternative Name(s) of Target:** AChR
**UniProt Accession Number of Target Protein:** P02708 (For the alpha-subunit)
**Published Application(s):** Blocking, WB, ELISA
**Published Species Reactivity:** Rat, Human, Mouse
**Immunogen:** Human muscle AChR.
**Specificity:** The antibody binds to human muscle AChR with a Kd of 10 pM, to mouse muscle AChR with a Kd of 50 pM, and to rat muscle AChR with a Kd of 646 nM.
**Application Notes:** This antibody binds to the human muscle Acetylcholine receptor, which is a ligand-gated ion channel, transducing an action potential into the muscle cells. The antibody binds to the main immunogenic region (MIR) and prevents ligand-binding.
**Antibody First Published in:** Kontou et al. Characterisation, crystallisation and preliminary X-ray diffraction analysis of a Fab fragment of a rat monoclonal antibody with very high affinity for the human muscle acetylcholine receptor. FEBS Letters 1996; 389(2):195-198 PMID:8766828
**Note on publication:** Describes the generation of a super-high-affinity rat antibody against human muscle AChR and subsequent crystallography.

## Product Form

**Size:** 200 µg Purified antibody.
**Purification:** Protein A affinity purified
**Supplied In:** PBS with 0.02% Proclin 300.
**Storage Recommendation:** Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -

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20$^{o}$C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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