

## Anti-Human Muscle Acetylcholine Receptor [mAb 192] Standard Size Ab00431-1.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Mouse IgG1 sequence with a short dimerization domain to improve stability and a his tag.

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 F(ab)2, AbFab2™ His-Tagged, 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:** 100 µg Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°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.