

CHRNA1 Monoclonal Antibody (88B)

Product Details

Size	100 µL
Species Reactivity	Amphibian, Chicken, Fish, Human, Mouse, Rat
Published Species	Rabbit, Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	88B
Conjugate	Unconjugated
Immunogen	Purified Torpedo californica acetylcholine receptor.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2081037

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunohistochemistry (Frozen) (IHC (F))	1:1,000	-
Immunocytochemistry (ICC/IF)	1:20-1:100	1 Publication
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	Assay-dependent	1 Publication

Product Specific Information

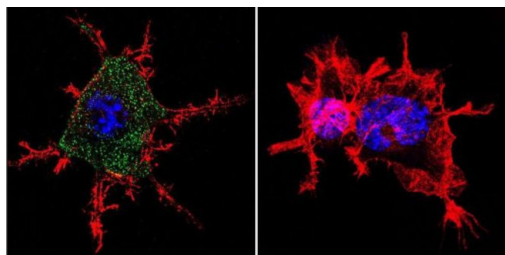
MA3-043 detects nicotinic acetylcholine receptor (nAChR) gamma and delta subunits in torpedo and the delta subunit in mouse, human, rat, chicken and frog. This antibody does not detect the alpha 1 and beta 1 subunits.

MA3-043 has been successfully used in Western blot, immunohistochemistry and immunoprecipitation procedures. By Western blot, this antibody detects a 60 kDa protein representing the gamma subunit and a 65 kDa protein representing the delta subunit from torpedo skeletal muscle homogenates. Under non-reducing conditions the delta subunit migrates mostly as a dimer of ~130 kDa. Immunohistochemical staining of nAChR in rat skeletal muscle with MA3-043 results in strong staining of the motor endplate.

In Immunohistochemical staining, cryostat or permeabilization of the sections is recommended due to the reactivity of this antibody with the cytoplasmic side of the receptor.

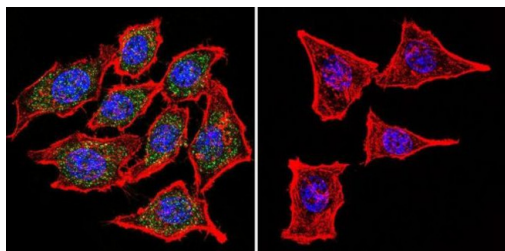
The MA3-043 antigen is purified Torpedo californica acetylcholine receptor.

Product Images For CHRNA1 Monoclonal Antibody (88B)



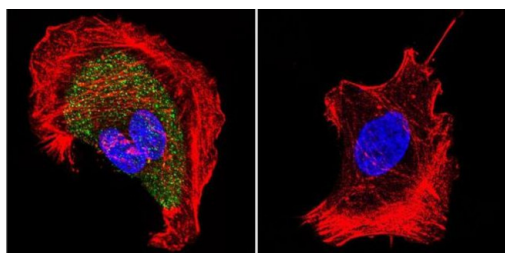
CHRNA1 Antibody (MA3-043) in ICC/IF

Immunofluorescent analysis of Nicotinic Acetylcholine Receptor using Anti-Nicotinic Acetylcholine Receptor Monoclonal Antibody (88B) (Product # MA3-043) shows staining in Neuro-2a Cells. Nicotinic Acetylcholine Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Nicotinic Acetylcholine Receptor (Product # MA3-043) at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503, Goat Anti-Mouse). Images were taken at 60X magnification.



CHRNA1 Antibody (MA3-043) in ICC/IF

Immunofluorescent analysis of Nicotinic Acetylcholine Receptor using Anti-Nicotinic Acetylcholine Receptor Monoclonal Antibody (88B) (Product # MA3-043) shows staining in Hela Cells. Nicotinic Acetylcholine Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Nicotinic Acetylcholine Receptor (Product # MA3-043) at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503, Goat Anti-Mouse). Images were taken at 60X magnification.



CHRNA1 Antibody (MA3-043) in ICC/IF

Immunofluorescent analysis of Nicotinic Acetylcholine Receptor using Anti-Nicotinic Acetylcholine Receptor Monoclonal Antibody (88B) (Product # MA3-043) shows staining in U251 Cells. Nicotinic Acetylcholine Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Nicotinic Acetylcholine Receptor (Product # MA3-043) at a dilution of 1:20 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503, Goat Anti-Mouse). Images were taken at 60X magnification.

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Western Blot (4)

European journal of cell biology	Year 2005
Expression of the skeletal muscle dystrophin-dystroglycan complex and syntrophin-nitric oxide synthase complex is severely affected in the type 2 diabetic Goto-Kakizaki rat.	Species Rat
"MA3-043 was used in western blot to study the reduced expression of the dystrophin-dystroglycan complex and the syntrophin-NOS complex in skeletal muscle of type 2 diabetic rats and the significance for insulin resistance"	
Authors: Mulvey C,Harno E,Keenan A,Ohlendieck K	
Analytical biochemistry	Year 2003
Use of continuous-elution gel electrophoresis as a preparative tool for blot overlay analysis.	Species Mouse
"MA3-043 was used in western blot to evaluate the use of continuous elution gel electrophoresis to isolate proteins for protein-protein interaction studies in blot overlay analysis"	
Authors: Mulvey C,Ohlendieck K	

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

Bioengineering (Basel, Switzerland)	Year 2021
RNU (<i>Foxn1</i>^{RNU}-Nude) Rats Demonstrate an Improved Ability to Regenerate Muscle in a Volumetric Muscle Injury Compared to Sprague Dawley Rats.	Species Rat
"MA3-043 was used in Immunohistochemistry to provide awareness that more studies are needed to understand how host responses to biomaterials differ based on the animal model used."	
Authors: McClure MJ,Olson LC,Cohen DJ,Huang YC,Zhang S,Nguyen T,Boyan BD,Schwartz Z	

Immunocytochemistry (1)

The Journal of membrane biology	Year 1994
Association of acetylcholine receptors with peripheral membrane proteins: evidence from antibody-induced coaggregation.	Species Rat
"MA3-043 was used in immunocytochemistry to investigate the interaction of acetylcholine receptors with peripheral membrane proteins"	
Authors: Bloch RJ,Sealock R,Pumplin DW,Luther PW,Froehner SC	
	Dilution 20 nM

More applications with references on thermofisher.com

- ELISA (1)
- IP (1)

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