

# Acetylcholinesterase Monoclonal Antibody (HR2)

## Product Details

Size	200 µL
Species	Bovine, Cat, Guinea pig, Human, Mouse, Rabbit
Published Species	Non-human primate, Mouse, Human, Guinea pig
Expression System	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	HR2
Conjugate	Unconjugated
Immunogen	Purified human cerebellar acetylcholinesterase.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325478

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay dependent	1 Publication
Immunocytochemistry (ICC)	1:100-1:1000	2 Publications
Immunofluorescence (IF)	1:100-1:1000	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:50	-
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunoprecipitation (IP)	Assay dependent	1 Publication
Immunohistochemistry (IHC)	-	7 Publications
Western Blot (WB)	-	4 Publications

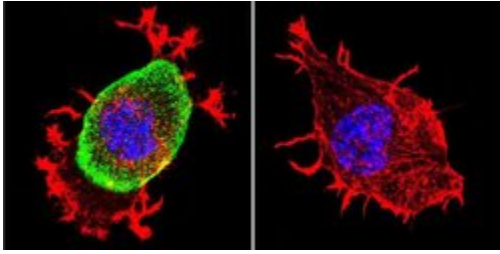
## Product Specific Information

MA3-042 detects acetylcholinesterase (AChE) from human, mouse, rabbit, guinea pig, bovine and cat tissues. This antibody does not cross react with rat or frog AChE, and does not detect butyrylcholinesterase (BChE).

MA3-042 has been successfully used in immunohistochemistry, immunoprecipitation and ELISA procedures. This antibody cannot be used in Western blot to detect AChE. Immunohistochemical staining of AChE in human brain samples with MA3-042 results in staining of nerve fibers and terminals.

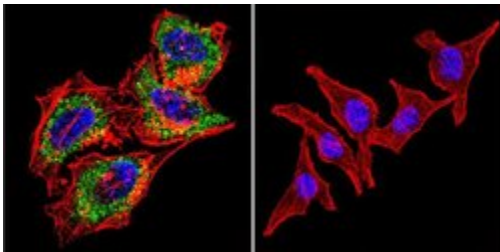
The MA3-042 antigen is purified human cerebellar acetylcholinesterase.

## Product Images For Acetylcholinesterase Monoclonal Antibody (HR2)



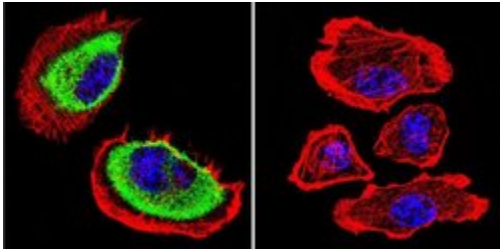
### Acetylcholinesterase Antibody (MA3-042) in IF

Immunofluorescent analysis of Acetylcholinesterase using Anti-Acetylcholinesterase Monoclonal Antibody (HR2) (Product # MA3-042) shows staining in Neuro-2a Cells. Acetylcholinesterase 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 Acetylcholinesterase (Product # MA3-042) at a dilution of 1:200 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.



### Acetylcholinesterase Antibody (MA3-042) in IF

Immunofluorescent analysis of Acetylcholinesterase using Anti-Acetylcholinesterase Monoclonal Antibody (HR2) (Product # MA3-042) shows staining in HeLa Cells. Acetylcholinesterase 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 Acetylcholinesterase (Product # MA3-042) at a dilution of 1:200 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.



### Acetylcholinesterase Antibody (MA3-042) in IF

Immunofluorescent analysis of Acetylcholinesterase using Anti-Acetylcholinesterase Monoclonal Antibody (HR2) (Product # MA3-042) shows staining in U251 Cells. Acetylcholinesterase 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 Acetylcholinesterase (Product # MA3-042) at a dilution of 1:200 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.

[View more figures on thermofisher.com](#)

## 18 References

### Immunocytochemistry (2)

PLoS pathogens

#### Cross-talk between microglia and neurons regulates HIV latency.

"Published figure using Acetylcholinesterase monoclonal antibody (Product # MA3-042) in Immunofluorescence"

Authors: Alvarez-Carbonell D, Ye F, Ramanath N, Garcia-Mesa Y, Knapp PE, Hauser KF, Karn J

**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2019

**Molecular and cellular biology**

**Presenilin 1 interacts with acetylcholinesterase and alters its enzymatic activity and glycosylation.**

"Published figure using Acetylcholinesterase monoclonal antibody (Product # MA3-042) in Immunocytochemistry"

Authors: Silveyra MX,Evin G,Montenegro MF,Vidal CJ,Martinez S,Culvenor JG,Sáez-Valero J

**Species**  
Non-human primate  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2008

**Immunofluorescence (3)**

**PLoS pathogens**

**Cross-talk between microglia and neurons regulates HIV latency.**

"Published figure using Acetylcholinesterase monoclonal antibody (Product # MA3-042) in Immunofluorescence"

Authors: Alvarez-Carbonell D,Ye F,Ramanath N,Garcia-Mesa Y,Knapp PE,Hauser KF,Karn J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

**Arteriosclerosis, thrombosis, and vascular biology**

**Adventitial Cell Atlas of wt (Wild Type) and ApoE (Apolipoprotein E)-Deficient Mice Defined by Single-Cell RNA Sequencing.**

"MA3-042 was used in Immunohistochemistry-immunofluorescence to study the role of the cellular atlas of the heterogeneous adventitial cells, and the intracellular communication, in atherosclerosis."

Authors: Gu W,Ni Z,Tan YQ,Deng J,Zhang SJ,Lv ZC,Wang XJ,Chen T,Zhang Z,Hu Y,Jing ZC,Xu Q

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

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

**More applications with references on thermofisher.com**

**IHC (7)** **WB (4)** **ELISA (1)** **IP (1)**

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