

# Amyloid Precursor Protein Monoclonal Antibody (3E9)

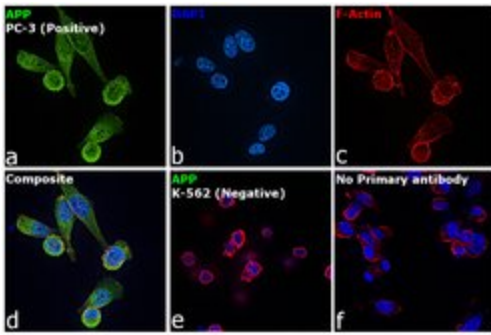
Product Details	
Size	50 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	3E9
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues L(18) E V P T D G N A G L L A E P Q I A M F C(38) of human Amyloid Precursor Protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 10mg/mL sucrose
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_779259

Applications	Tested Dilution	Publications
Western Blot (WB)	5-10 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5-10 µg/mL	-
Immunocytochemistry (ICC/IF)	1:200	-
Immunoprecipitation (IP)	-	1 Publication

## Product Specific Information

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

## Advanced Verification Data

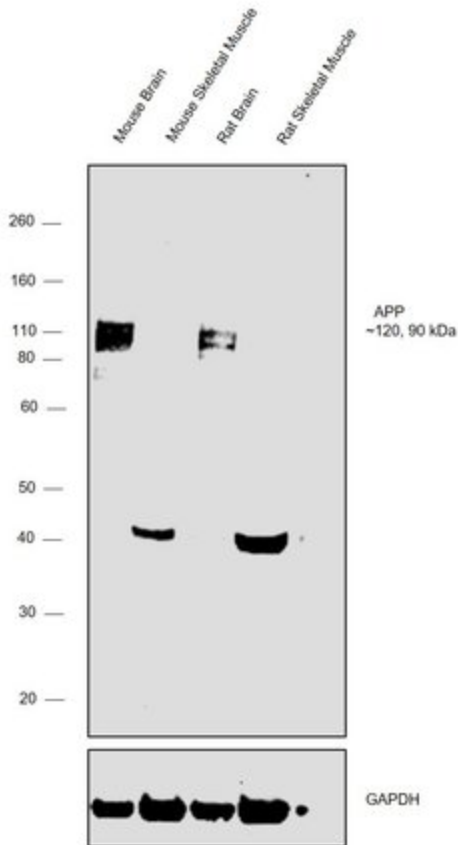


### Amyloid Precursor Protein Antibody (MA1-25489)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-Amyloid Precursor Protein Monoclonal Antibody (3E9) (Product # MA1-25489), shows positive Cytoplasmic, Nuclear and Plasma Membrane localization in PC-3 as compared to K-562 cells which is null for APP. Relative expression validation info.

### Amyloid Precursor Protein Antibody (MA1-25489)

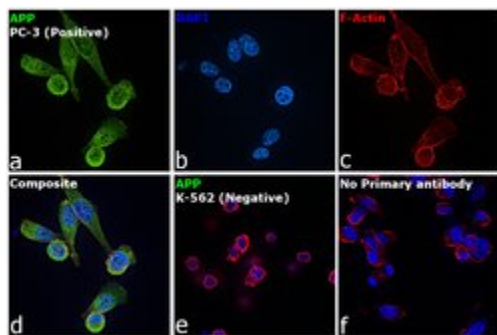
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of Amyloid Precursor Protein was observed in Mouse Brain and Rat Brain in comparison to Mouse and Rat Skeletal Muscle using Anti-Amyloid Precursor Protein Monoclonal Antibody (3E9) (Product # MA1-25489) in Western Blot. Relative expression validation info.



## Product Images For Amyloid Precursor Protein Monoclonal Antibody (3E9)

### Amyloid Precursor Protein Antibody (MA1-25489) in ICC/IF

Immunofluorescence analysis of Amyloid Precursor Protein was performed using 70% confluent log phase PC-3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Amyloid Precursor Protein Monoclonal Antibody (3E9) (Product # MA1-25489) at 1:200 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723), (1:3000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing Cytoplasm, Plasma membrane and Nuclear localization. Panel e represents merged image for K-562 cells showing no staining for APP. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



[View more figures on thermofisher.com](https://www.thermofisher.com)

## 3 References

### Immunohistochemistry (2)

<b>PloS one</b> <b>Nogo-receptor 1 deficiency has no influence on immune cell repertoire or function during experimental autoimmune encephalomyelitis.</b> "MA1-25489 was used in immunohistochemistry to study the effects of Nogo receptor-1 ablation on immune cell function in a murine model of autoimmune encephalomyelitis" Authors: Litwak SA,Payne NL,Campanale N,Ozturk E,Lee JY,Petratos S,Siatskas C,Bakhraysah M,Bernard CC	<b>Species</b> Mouse <b>Dilution</b> 1:200 <b>Year</b> 2014
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<b>The Journal of neuroscience : the official journal of the Society for Neuroscience</b> <b>Limiting Neuronal Nogo Receptor 1 Signaling during Experimental Autoimmune Encephalomyelitis Preserves Axonal Transport and Abrogates Inflammatory Demyelination.</b> "MA1-25489 was used in Immunohistochemistry-immunofluorescence to identify that abrogating the NgR1/pCRMP2 signaling cascade can maintain Kinesin-1-dependent anterograde axonal transport to limit inflammatory-mediated axonopathy and demyelination." Authors: Lee JY, Kim MJ, Thomas S, Oorschot V, Ramm G, Aui PM, Sekine Y, Deliyanti D, Wilkinson-Berka J, Niego B, Harvey AR, Theotokis P, McLean C, Strittmatter SM, Petratos S	<b>Species</b> Mouse <b>Dilution</b> 1:100 <b>Year</b> 2019
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### Immunoprecipitation (1)

<b>Proceedings of the National Academy of Sciences of the United States of America</b> <b>Ran-independent nuclear import of cyclin B1-Cdc2 by importin beta.</b> "MA1-25489 was used in immunoprecipitation to study the mechanism for the cyclin B1-Cdc2 import into the nucleus" Authors: Takizawa CG, Weis K, Morgan DO	<b>Species</b> Human <b>Dilution</b> Not Cited <b>Year</b> 1999
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