

# Product Datasheet

## Presenilin-1 Antibody (APS 18) NB100-74510-50 ug

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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Updated 10/23/2024 v.20.1

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**NB100-74510-50 ug**

Presenilin-1 Antibody (APS 18)

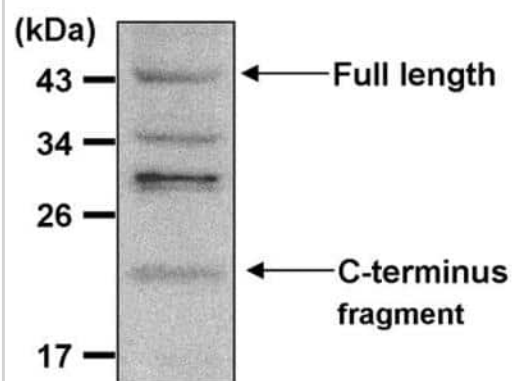
Product Information	
Unit Size	50 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	APS 18
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS with 1 mg/ml BSA

Product Description	
Host	Mouse
Gene ID	5663
Gene Symbol	PSEN1
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	Presenilin 1 (APS 18)
Immunogen	Synthetic peptide corresponding to residues C S(313) K Y N A E S T E R E S Q D T V A E N D D G(334) of human PS1.

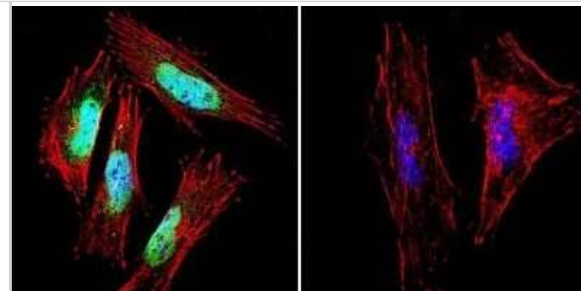
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:50 - 1:250, ELISA 1:1000, Immunohistochemistry 1:20 - 1:200, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20 - 1:200
Application Notes	IP usage was reported in scientific literatures (PMID: 9852041 and 10092585).

**Images**

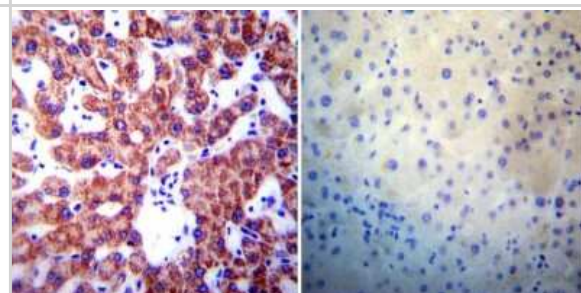
Western Blot: Presenilin-1 Antibody (APS 18) [NB100-74510] - Analysis of THP-1 cell lysate.



Immunocytochemistry/Immunofluorescence: Presenilin-1 Antibody (APS 18) [NB100-74510] - Analysis of Presenilin 1 using Presenilin 1 Monoclonal antibody (APS 18) shows staining in A2058 melanoma cells. Presenilin 1 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 Presenilin 1 at a dilution of 1:20-1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.

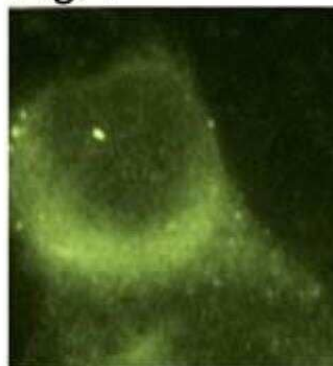


Immunohistochemistry-Paraffin: Presenilin-1 Antibody (APS 18) [NB100-74510] - Normal biopsies of deparaffinized Human liver tissue.

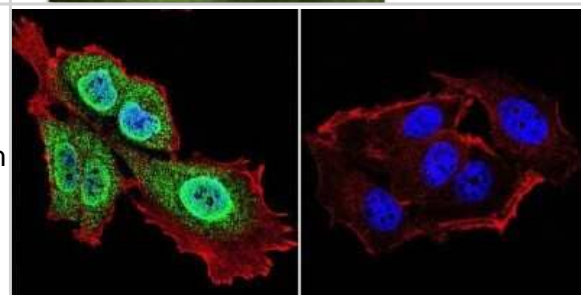


Immunocytochemistry/Immunofluorescence: Presenilin-1 Antibody (APS 18) [NB100-74510] - Staining of PS1 in mouse fibroblasts.

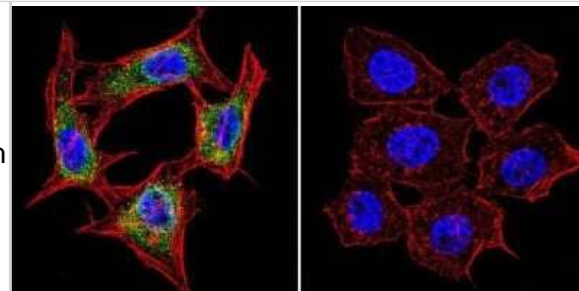
Fig. 1



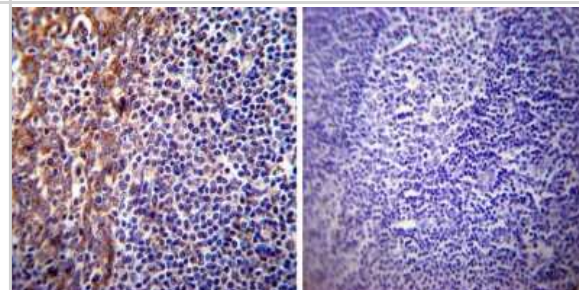
Immunocytochemistry/Immunofluorescence: Presenilin-1 Antibody (APS 18) [NB100-74510] - Analysis of Presenilin 1 using Presenilin 1 Monoclonal antibody (APS 18) shows staining in MCF-7 cells. Presenilin 1 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Presenilin 1 at a dilution of 1:20-1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



**Immunocytochemistry/Immunofluorescence: Presenilin-1 Antibody (APS 18) [NB100-74510]** - Analysis of Presenilin 1 using Presenilin 1 Monoclonal antibody (APS 18) shows staining in HeLa cells. Presenilin 1 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 Presenilin 1 at a dilution of 1:20-1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



**Immunohistochemistry-Paraffin: Presenilin-1 Antibody (APS 18) [NB100-74510]** - Normal biopsies of deparaffinized Human tonsil tissue.



## Publications

Zhang H, Jiang R, Zhou J et al. CTL Attenuation Regulated by PS1 in Cancer-Associated Fibroblast Front Immunol 2020-06-10 [PMID: 32587587] (IF/IHC, Mouse)

McCombs JE, Gibson EA, Palmer AE. Using a genetically targeted sensor to investigate the role of presenilin-1 in ER Ca<sup>2+</sup> levels and dynamics. Mol Biosyst. 2010-04-08 [PMID: 20379593] (WB, Mouse)

Stahl B et al. Direct interaction of Alzheimer's disease-related presenilin 1 with armadillo protein p0071. J Biol Chem 274(14):9141-8. 1999-04-02 [PMID: 10092585] (IP)

Tesco G et al. Abrogation of the presenilin 1/beta-catenin interaction and preservation of the heterodimeric presenilin 1 complex following caspase activation. J Biol Chem 273(51):33909-14. 1998-12-18 [PMID: 9852041] (IP)

Diehlmann A et al. Analysis of presenilin 1 and presenilin 2 expression and processing by newly developed monoclonal antibodies. J Neurosci Res 56(4):405-19. 1999-05-15 [PMID: 10340748] (ELISA, WB, ICC/IF)



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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