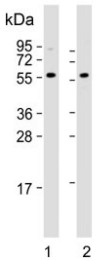
Presenilin 1 Antibody / PSEN1 (F54846)

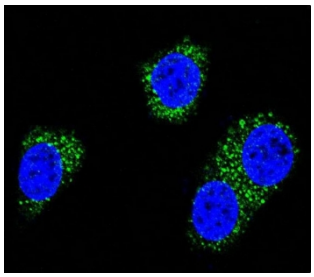
Catalog No.	Formulation	Size
F54846-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54846-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

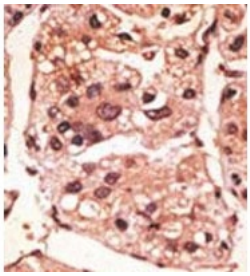
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P49768
Localization	Nuclear, cytoplasmic, cell membrane
Applications	Immunofluorescence: 1:10-1:50 Immunohistochemistry (FFPE): 1:50-1:100 Flow cytometry: 1:10-1:50 (1x10e6 cells) Western blot: 1:500-1:1000
Limitations	This Presenilin 1 antibody is available for research use only.



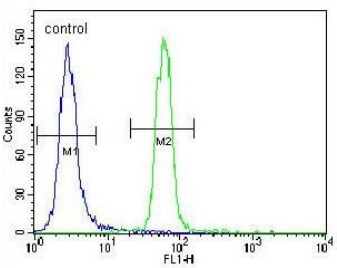
Western blot testing of human 1) HeLa and 2) HL60 cell lysate with Presenilin 1 antibody. Predicted molecular weight ~53 kDa.



Immunofluorescent staining of human MDA-MB-435 cells with Presenilin 1 antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human cancer tissue with Presenilin 1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human HeLa cells with Presenilin 1 antibody; Blue=isotype control, Green= Presenilin 1 antibody.

Description

Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Presenilin 1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 330-359 from the human protein was used as the immunogen for the Presenilin 1 antibody.

Storage

Aliquot the Presenilin 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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