

For Research Use Only

# WFS1 Polyclonal antibody

Catalog Number: 26995-1-AP

Featured Product

20 Publications



## Basic Information

<b>Catalog Number:</b> 26995-1-AP	<b>GenBank Accession Number:</b> BC030130	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 770 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7466	<b>Recommended Dilutions:</b> IHC 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76024	IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> Wolfram syndrome 1 (wolframin)	IF/ICC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG25724	<b>Calculated MW:</b> 890 aa, 100 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, ColP	IHC : rat brain tissue, mouse brain tissue
<b>Species Specificity:</b> human, mouse, rat	IF-P : mouse brain tissue,
<b>Cited Species:</b> human, mouse, rat, zebrafish	IF/ICC : HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Wolfram syndrome protein (WFS1), also called wolframin, is a transmembrane protein, which is located primarily in the endoplasmic reticulum and its expression is induced in response to ER stress, partially through transcriptional activation. ER localization suggests that WFS1 protein has physiological functions in membrane trafficking, secretion, processing and/or regulation of ER calcium homeostasis. It is ubiquitously expressed with highest levels in brain, pancreas, heart, and insulinoma beta-cell lines. Mutations of the WFS1 gene are responsible for two hereditary diseases, autosomal recessive Wolfram syndrome and autosomal dominant low frequency sensorineural hearing loss.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jean-Christophe Delpech	34524859	Sci Transl Med	IF
Linlin Wang	34848728	Nat Commun	WB,IF
Kun Hu	34006618	J Med Genet	WB

## Storage

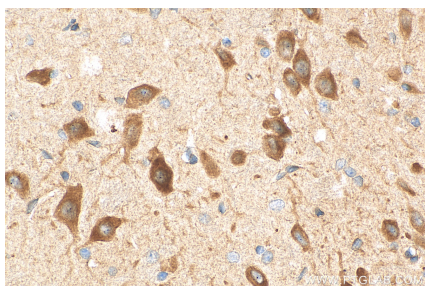
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

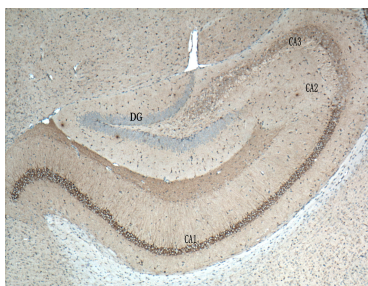
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

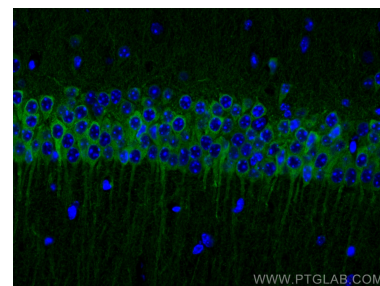
## Selected Validation Data



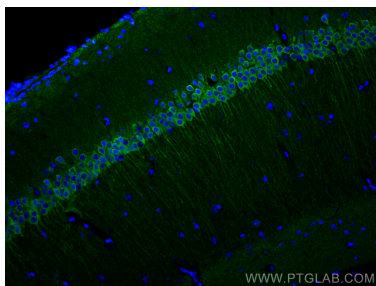
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 26995-1-AP (WFS1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



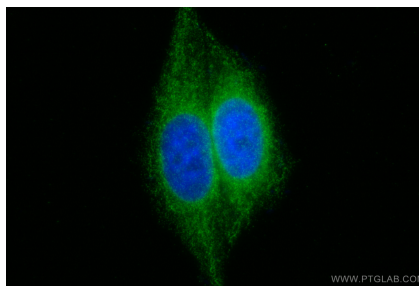
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26995-1-AP (WFS1 antibody) at dilution of 1:400 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using WFS1 antibody (26995-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using WFS1 antibody (26995-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using WFS1 antibody (26995-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).