

For Research Use Only

WFS1 Polyclonal antibody

Catalog Number: 11558-1-AP

Featured Product

75 Publications



Basic Information

Catalog Number:

11558-1-AP

Size:

150ul, Concentration: 280 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2114

GenBank Accession Number:

BC030130

GeneID (NCBI):

7466

UNIPROT ID:

O76024

Full Name:

Wolfram syndrome 1 (wolframin)

Calculated MW:

890 aa, 100 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

Applications

Tested Applications:

WB, IP, IF, IHC, ELISA

Cited Applications:

WB, IHC, IF, colP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : SH-SY5Y cells, HEK-293 cells

IP : SH-SY5Y cells,

IHC : rat brain tissue,

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
M Zatyka	25274773	Hum Mol Genet	WB
Yi Gu	30270041	Cell	IF
Rosanna P Sammons	31548233	J Neurosci	IF

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

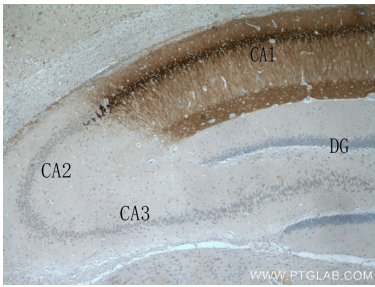
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

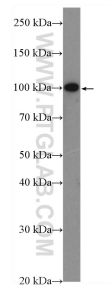
E: proteintech@ptglab.com
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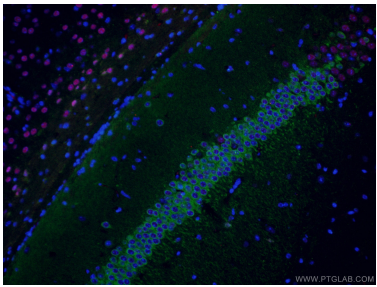
Selected Validation Data



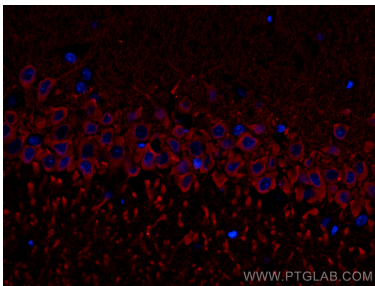
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 11558-1-AP (WFS1 antibody) at dilution of 1:400 (under 40x lens)..



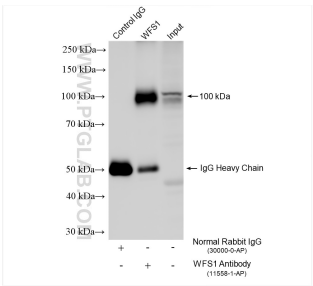
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 11558-1-AP (WFS1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 11558-1-AP (WFS1 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated Goat Anti-Rabbit IgG(H+L). The section was co-stained with 66564-1-Ig (Tbr1 antibody) and Alexa Fluor 594-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using WFS1 antibody (11558-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-WFS1 (IP:11558-1-AP, 4ug; Detection:11558-1-AP 1:400) with SH-SY5Y cells lysate 770 ug.