

WFS1

Polyclonal ANTIBODY

Catalog Number: 11558-1-AP

Featured Product

38 Publications

Basic Information

Catalog Number:
11558-1-AP

Size:
42 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG2114

GenBank Accession Number:
BC030130

GeneID (NCBI):
7466

Full Name:
Wolfram syndrome 1 (wolframin)

Calculated MW:
890aa, 100 kDa

Observed MW:
100 kDa

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:200-1:800

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

colIF, IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, orchid, 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

IHC : rat brain tissue;

IF : mouse 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
Takashi Kitamura	26402611	Neuron	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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)

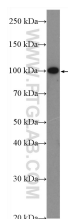
E: proteintech@ptglab.com
W: ptglab.com

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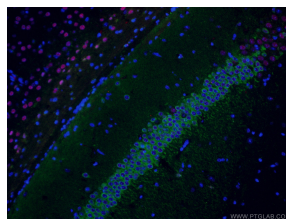
Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 66564-1-Ig (Tbr1 antibody) and and Alexa Fluor 594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).