ARG45491
anti-WFS1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes WFS1
Tested Reactivity	Hu, Mk
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	WFS1
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	WFS1
Species	Human
Immunogen	Recombinant protein containing to human WFS1.
Conjugation	Un-conjugated
Alternate Names	WFS1; Wolframin ER Transmembrane Glycoprotein; WFS; Wolfram Syndrome 1 (Wolframin); Wolframin; DIDMOAD; CTRCT41; DFNA14; DFNA38; DFNA6; WFRS; WFSL

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 100 kDa

Properties

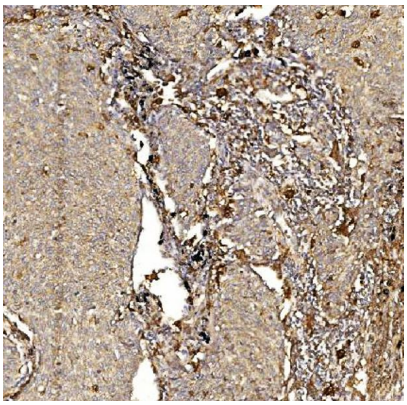
Form	Powder
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

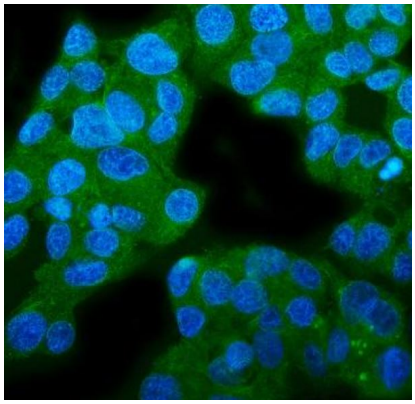
Gene Symbol	WFS1
Gene Full Name	Wolframin ER Transmembrane Glycoprotein
Background	This gene encodes a transmembrane protein, which is located primarily in the endoplasmic reticulum and ubiquitously expressed with highest levels in brain, pancreas, heart, and insulinoma beta-cell lines. Mutations in this gene are associated with Wolfram syndrome, also called DIDMOAD (Diabetes Insipidus, Diabetes Mellitus, Optic Atrophy, and Deafness), an autosomal recessive disorder. The disease affects the brain and central nervous system. Mutations in this gene can also cause autosomal dominant deafness 6 (DFNA6), also known as DFNA14 or DFNA38. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]
Function	Participates in the regulation of cellular Ca2+ homeostasis, at least partly, by modulating the filling state of the endoplasmic reticulum Ca2+ store. [UniProt]
Calculated Mw	100 kDa
PTM	Acetylation; Glycoprotein; Phosphoprotein. [UniProt]
Cellular Localization	Cytoplasmic vesicle; Endoplasmic reticulum; Membrane. [UniProt]

Images



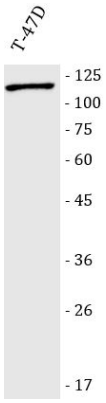
ARG45491 anti-WFS1 antibody IHC-P image

Immunohistochemistry: Human lung cancer stained with ARG45491 anti-WFS1 antibody at 2 µg/ml dilution.



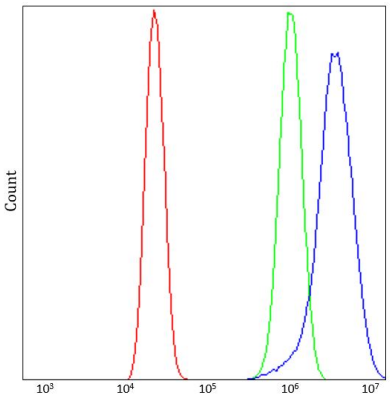
ARG45491 anti-WFS1 antibody ICC/IF image

Immunofluorescence: HepG2 stained with ARG45491 anti-WFS1 antibody at 5 µg/ml dilution.



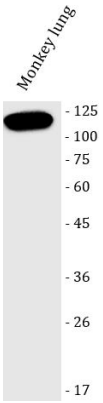
ARG45491 anti-WFS1 antibody WB image

Western blot: T-47D stained with ARG45491 anti-WFS1 antibody at 0.5 µg/ml dilution.



ARG45491 anti-WFS1 antibody FACS image

Flow Cytometry: U20S stained with ARG45491 anti-WFS1 antibody at 1 µg/10^6 cells dilution.



ARG45491 anti-WFS1 antibody WB image

Western blot: Monkey lung stained with ARG45491 anti-WFS1 antibody at 0.5 µg/ml dilution.