

Rabbit WFS1 Polyclonal Antibody | anti-WFS1 antibody

WFS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326332	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

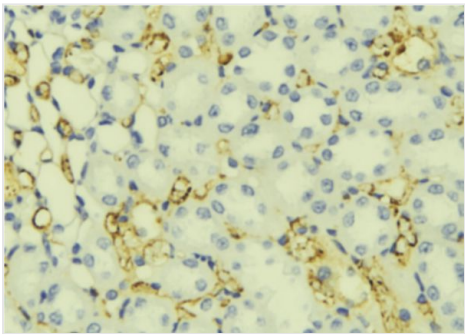
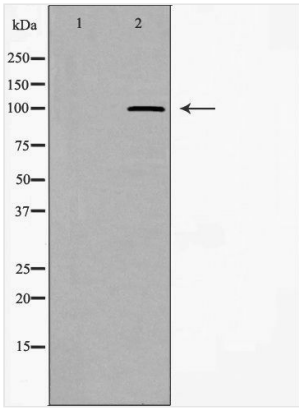
PRODUCT SYNONYMS

WFS1; Polyclonal Antibody; WFS1 Antibody; DFNA14; DFNA38; DFNA6; DIDMOAD; WFRS; WFS; Wolfram syndrome 1 (wolframin); Wolfram syndrome; WOLFRAMIN; anti-WFS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	WFS1 antibody detects endogenous levels of total WFS1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	890
Applicable Applications for anti-WFS1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WFS1
Subcellular Location	Endoplasmic Reticulum; Endoplasmic Reticulum Membrane; Multipass Membrane Protein
Tissue Specificity	Highly expressed in heart followed by brain, placenta, lung and pancreas. Weakly expressed in liver, kidney and skeletal muscle. Also expressed in islet and beta-cell insulinoma cell line.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (92%), Bovine (100%), Horse (100%), Sheep (92%), Rabbit (80%), Dog (92%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326332 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of mouse brain, using WFS1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-WFS1 antibody

Description: Wolfram syndrome protein (WFS1) is an 890 amino acid protein that contains a cytoplasmic N-terminal domain, followed by nine-transmembrane domains and a luminal C-terminal domain. WFS1 is predominantly localized to the endoplasmic reticulum (ER) (1) and its expression is induced in response to ER stress, partially through transcriptional activation (2, 3). Research studies have shown that mutations in the WFS1 gene lead to Wolfram syndrome, an autosomal recessive neurodegenerative disorder defined by young-onset, non-immune, insulin-dependent diabetes mellitus and progressive optic atrophy (4).

Function: Participates in the regulation of cellular Ca2+ homeostasis, at least partly, by modulating the filling state of the endoplasmic reticulum Ca2+ store.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224994205
NCBI GeneID	7466
NCBI Accession #	NP_001139325.1
NCBI GenBank Nucleotide #	NM_001145853.1
UniProt Accession #	O76024; Q8N6I3; Q9UNW6; B2R797; D3DVT1
Molecular Weight	Observed: 100 kDa Predicted: 101 kDa
NCBI Official Full Name	wolframin
NCBI Official Synonym Full Names	wolframin ER transmembrane glycoprotein
NCBI Official Symbol	WFS1
NCBI Official Synonym Symbols	WFS; WFRS; WFSL; CTRCT41
NCBI Protein Information	wolframin
UniProt Protein Name	Wolframin
UniProt Gene Name	WFS1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.