Datasheet for ABIN2783409

anti-GGPS1 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	GGPS1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GGPS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GGPS1
Sequence:	LGLFFQIRDD YANLHSKEYS ENKSFCEDLT EGKFSFPTIH AIWSRPESTQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against GGPS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GGPS1

Target Details

Alternative Name:	GGPS1 (GGPS1 Products)
Background:	GGPS1 is a member of the prenyltransferase family and has geranylgeranyl diphosphate (GGPP) synthase activity. The enzyme catalyzes the synthesis of GGPP from farnesyl diphosphate and isopentenyl diphosphate. GGPP is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. The protein is an important precursor of carotenoids and geranylated proteins. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.This gene is a member of the prenyltransferase family and encodes a protein with geranylgeranyl diphosphate (GGPP) synthase activity. The enzyme catalyzes the synthesis of GGPP from farnesyl diphosphate and isopentenyl diphosphate. GGPP is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. Alias Symbols: GGPPS, GGPPS1 Protein Interaction Partner: GGPS1, ATOX1, UBC, Protein Size: 300
Molecular Weight:	35 kDa
Gene ID:	9453
NCBI Accession:	NM_001037277, NP_001032354
UniProt:	O95749

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 300 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

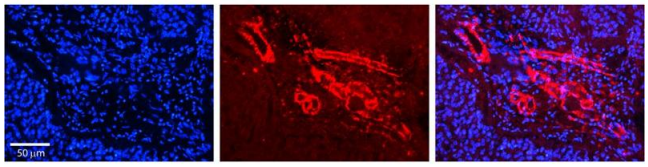
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

Western Blotting

Image 1. WB Suggested Anti-GGPS1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 293T cell lysate GGPS1 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells



Immunohistochemistry

Image 2. Rabbit Anti-GGPS1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human Pineal Tissue Observed Staining: Cytoplasmic in endothelial cells in blood vessels Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec