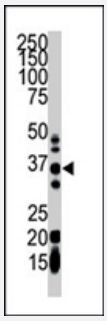
GGPS1 polyclonal antibody

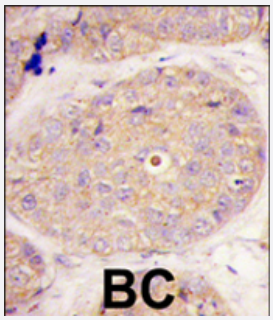
Catalog # PAB4325 Size 400 uL

Applications



Western Blot (Tissue lysate)

The GGPS1 polyclonal antibody (Cat # PAB4325) is used in Western blot to detect GGPS1 in mouse cerebellum tissue lysate .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with GGPS1 polyclonal antibody (Cat # PAB4325) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GGPS1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human GGPS1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification

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Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

  The GGPS1 polyclonal antibody (Cat # PAB4325) is used in Western blot to detect GGPS1 in mouse cerebellum tissue lysate .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with GGPS1 polyclonal antibody (Cat # PAB4325) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated .

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GGPS1

Entrez GeneID	9453
Protein Accession#	GGPP_HUMAN
Gene Name	GGPS1
Gene Alias	GGPPS, GGPPS1
Gene Description	geranylgeranyl diphosphate synthase 1
Omim ID	606982
Gene Ontology	Hyperlink

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Gene Summary	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 C 20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq
Other Designations	OTTHUMP00000036073

Publication Reference

- Identification of the GGPS1 genes encoding geranylgeranyl diphosphate synthases from mouse and human.

  Kainou T, Kawamura K, Tanaka K, Matsuda H, Kawamukai M.

  Biochimica et Biophysica Acta 1999 Mar; 1437(3):333.

- Human geranylgeranyl diphosphate synthase. cDNA cloning and expression.

  Kuzuguchi T, Morita Y, Sagami I, Sagami H, Ogura K.

  The Journal of Biological Chemistry 1999 Feb; 274(9):5888.

  Application: WB-Ti, Bovine, Brain

- Human geranylgeranyl diphosphate synthase: isolation of the cDNA, chromosomal mapping and tissue expression.

  Ericsson J, Greene JM, Carter KC, Shell BK, Duan DR, Florence C, Edwards PA.

  Journal of Lipid Research 1998 Sep; 39(9):1731.

  Application: WB-Ce, WB-Re, Human, HeLa cells, Recombinant protein

Pathway

- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Metabolic pathways
- Terpenoid backbone biosynthesis

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