



Rabbit Anti-PGGT1A antibody

SL9547R

Product Name:	PGGT1A
Chinese Name:	蛋白香叶烯基转移酶1 α 抗体
Alias:	CAAX farnesyltransferase alpha subunit; Farnesyl protein transferase alpha subunit; Farnesyltransferase CAAX box alpha; Farnesyltransferase, CAAX box, alpha; FPTA; FTase alpha; GGTase I alpha; PGGT1A; Protein farnesyltransferase/geranylgeranyltransferase type I alpha subunit; Protein prenyltransferase alpha subunit repeat containing 2; PTAR2; Ras proteins prenyltransferase alpha; Ras proteins prenyltransferase subunit alpha; Type I protein geranyl geranyltransferase alpha subunit; FNTA HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PGGT1A/FNTA:301-379/379
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	FNTA, also known as CAAX farnesyltransferase (FTase), attaches a farnesyl group

from farnesyl pyrophosphate to cysteine residues at the fourth position from the C terminus of proteins that end in the so-called CAAX box, where C is cysteine, A is usually but not always an aliphatic amino acid, and X is typically methionine or serine. This type of posttranslational modification provides a mechanism for membrane localization of proteins that lack a transmembrane domain. This enzyme has the remarkable property of farnesylating peptides as short as four residues in length that conform to the CAAX consensus sequence. FNTA is also a specific cytoplasmic interactor of the transforming growth factor-beta and activin type I receptors. It is likely to be a key component of the signaling pathway which involves p21ras, an important substrate for farnesyltransferase.

Function:

Catalyzes the transfer of a farnesyl or geranyl-geranyl moiety from farnesyl or geranyl-geranyl pyrophosphate to a cysteine at the fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic-aliphatic-X. The alpha subunit is thought to participate in a stable complex with the substrate. The beta subunit binds the peptide substrate. Through RAC1 prenylation and activation may positively regulate neuromuscular junction development downstream of MUSK (By similarity).

Subunit:

Heterodimer of an alpha and a beta subunit. Interacts with MUSK; the interaction is direct and mediates AGRIN-induced phosphorylation of FNTA (By similarity).

Subcellular Location:

Cytoplasmic

Post-translational modifications:

Phosphorylated. Phosphorylation is mediated by MUSK upon AGRIN stimulation and results in the activation of FNTA (By similarity).

Similarity:

Belongs to the protein prenyltransferase subunit alpha family.
Contains 5 PFTA repeats.

SWISS:

P49354

Gene ID:

2339

Database links:

[Entrez Gene: 2339](#)Human

[Entrez Gene: 14272](#)Mouse

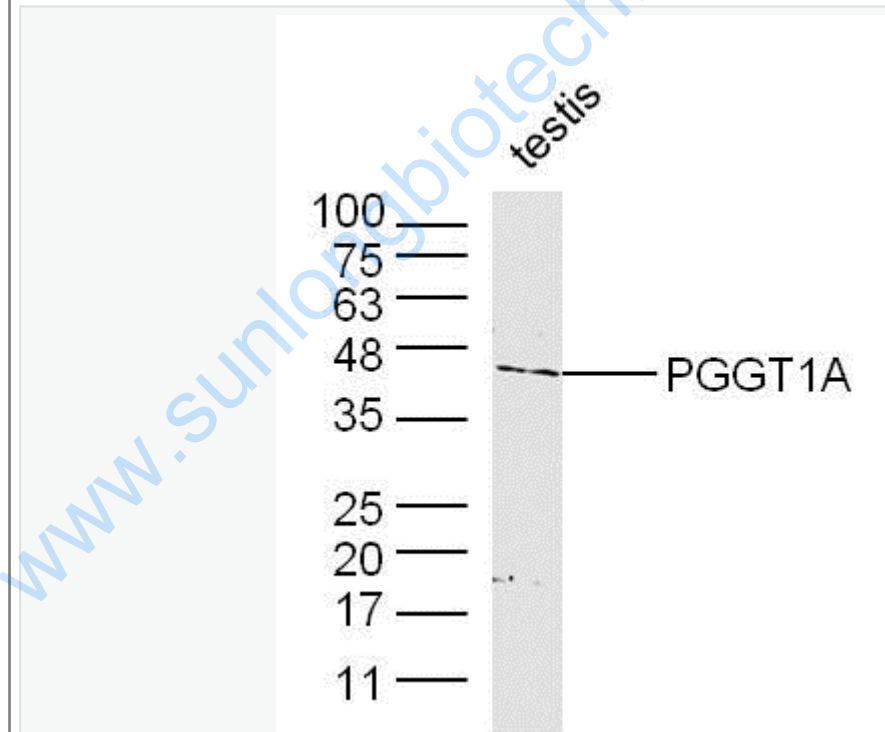
[Entrez Gene: 25318](#)Rat

[Oimim: 134635](#)Human
[SwissProt: P49354](#)Human
[SwissProt: Q61239](#)Mouse
[SwissProt: Q04631](#)Rat
[Unigene: 370312](#)Human
[Unigene: 3496](#)Mouse
[Unigene: 5990](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Testis (Mouse) Lysate at 40 ug

Primary: Anti-PGGT1A (SL9547R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 44 kD

Observed band size: 44 kD

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