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Rabbit Anti-GNPNAT1 antibody

SL13475R

Product Name:	GNPNAT1
Chinese Name:	葡萄糖6-N-乙酰基转移酶1抗体
Alias:	AU017428; AU040593; EMeg32; FLJ10607; Glucosamine 6 phosphate acetyltransferase; Glucosamine 6 phosphate N acetyltransferase; Glucosamine 6-phosphate N-acetyltransferase; Glucosamine phosphate N acetyltransferase 1; GNA1; GNA1_HUMAN; GNPNAT; GNPNAT1; Gpnat1; Gsnpat; Phosphoglucosamine acetylase; Phosphoglucosamine transacetylase; RGD1563144.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,
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:	21kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GNPNAT1/GNA1:101-184/184
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:	Glucosamine 6-phosphate N-acetyltransferase (GNA1), also designated phosphoglucosamine transacetylase or phosphoglucosamine acetylase, belongs to the GNA1 subfamily of the larger acetyltransferase family of proteins. GNA1, a peripheral

membrane protein containing one N-acetyltransferase domain, is expressed in the colon and maps to cytoband 14q22.1. The protein localizes to the Golgi apparatus and the endosome. It is important for UDP-GlcNAc biosynthesis pathway. GNA1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the UDP-GlcNAc6P formation pathway.

Function:
Nucleotide-sugar biosynthesis; UDP-N-acetyl-alpha-D-glucosamine biosynthesis; N-acetyl-alpha-D-glucosamine 1-phosphate from alpha-D-glucosamine 6-phosphate (route I): step 1/2.

Subcellular Location:
Golgi apparatus membrane. Endosome membrane.

Similarity:
Belongs to the acetyltransferase family.
GNA1 subfamily.
Contains 1 N-acetyltransferase domain.

SWISS:
Q96EK6

Gene ID:
64841

Database links:

Entrez Gene: 64841Human

Entrez Gene: 54342Mouse

Entrez Gene: 498486Rat

Entrez Gene: 512299Cow

SwissProt: Q96EK6Human

SwissProt: Q9JK38Mouse

Unigene: 702056Human

Unigene: 312945Mouse

Unigene: 14702Rat

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