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GYG2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58116

Specification

GYG2 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	O15488
Reactivity	**Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**55 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human GYG2**
Epitope Specificity	**401-501/504**
Isotype	**IgG**
Purity affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SIMILARITY	**Belongs to the glycosyltransferase 8 family. Glycogenin subfamily.**
SUBUNIT	**Homodimer, tightly complexed to glycogen synthase.**
Post-translational modifications	**Self-glycosylated by the transfer of glucose residues from UDP-glucose to itself, forming an alpha-1,4-glycan of around 10 residues attached to Tyr-228.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
This gene encodes a member of the the glycogenin family. Glycogenin is a self-glucosylating protein involved in the initiation reactions of glycogen biosynthesis. A gene on chromosome 3 encodes the muscle glycogenin and this X-linked gene encodes the glycogenin mainly present in liver; both are involved in blood glucose homeostasis. This gene has a short version on chromosome Y, which is 3' truncated and can not make a functional protein. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

GYG2 Polyclonal Antibody - Additional Information

Gene ID 8908

Other Names
Glycogenin-2, GN-2, GN2, 2.4.1.186, GYG2

Target/Specificity

Expressed preferentially in liver, heart, and pancreas.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. 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 ℃.

GYG2 Polyclonal Antibody - Protein Information

Name GYG2

Function
Glycogenin participates in the glycogen biosynthetic process along with glycogen synthase and glycogen branching enzyme. It catalyzes the formation of a short alpha (1,4)-glucosyl chain covalently attached via a glucose 1-O-tyrosyl linkage to internal tyrosine residues and these chains act as primers for the elongation reaction catalyzed by glycogen synthase.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P13280}. Nucleus {ECO:0000250|UniProtKB:P13280}. Note=Localizes to glycogen granules (glycosomes) in the cytoplasm (By similarity). Cytosolic localization is dependent on the actin cytoskeleton (By similarity) {ECO:0000250|UniProtKB:C4R941, ECO:0000250|UniProtKB:P13280}

Tissue Location
Detected in liver (at protein level) (PubMed:9857012). Expressed preferentially in liver, heart, and pancreas (PubMed:9346895).

GYG2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GYG2 Polyclonal Antibody - Images