

G3PP Rabbit pAb

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Catalog # AP55160

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P57057
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57648
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human G3PP/SLC37A1
Epitope Specificity	21-120/533
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	G3PP is a 533 amino acid protein belonging to the major facilitator superfamily. G3PP is a multi-pass membrane protein that acts as a transporter of or glycerol-3-phosphate between cellular compartments. Glycerol-3-phosphate is produced from glycerol and is an important factor in many biochemical pathways, including glycolysis. G3PP contains 12 putative transmembrane domains and N- and C-terminal Endoplasmic Reticulum (ER) retention signals. G3PP is expressed at highest levels in liver, kidney, small intestine, bone marrow and fetal tissues.

Additional Information

Gene ID	54020
Other Names	Glucose-6-phosphate exchanger SLC37A1, Glycerol-3-phosphate permease, G-3-P permease, Solute carrier family 37 member 1 {ECO:0000312 HGNC:HGNC:11024}, SLC37A1 (HGNC:11024)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C 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 °C.

Protein Information

Name	SLC37A1 (HGNC:11024)
Function	Inorganic phosphate and glucose-6-phosphate antiporter. May transport cytoplasmic glucose-6-phosphate into the lumen of the endoplasmic reticulum and translocate inorganic phosphate into the opposite direction. Independent of a luminal glucose-6-phosphatase. May not play a role in homeostatic regulation of blood glucose levels.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in numerous tissues, with highest expression in pancreas, kidney, bone marrow, spleen, liver, small intestine, as well as in fetal brain, liver and spleen

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.