

GDPGP1 Rabbit pAb

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Catalog # AP55133

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q6ZNW5
Reactivity	Rat, Mouse
Predicted	Pig, Human, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42362
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GDPGP1/C15orf58
Epitope Specificity	301-385/385
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** Cytoplasm.**Important Note** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene. The LOC390637 gene product has been provisionally designated LOC390637 pending further characterization.

Additional Information

Gene ID	390637
Other Names	GDP-D-glucose phosphorylase 1, 2.7.7.78, GDPGP1 (HGNC:34360)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

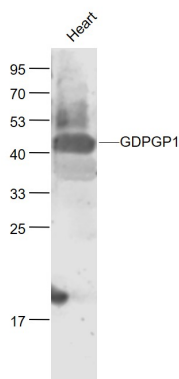
Protein Information

Name	GDPGP1 (HGNC:34360)
Function	Specific and highly efficient GDP-D-glucose phosphorylase regulating the levels of GDP-D-glucose in cells (PubMed: 21507950). Is involved in adaptive response to stress conditions, and plays a key role in neuronal stress resistance by modulating neuronal glycogen levels and maintaining glucose balance (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q5ZR76}.

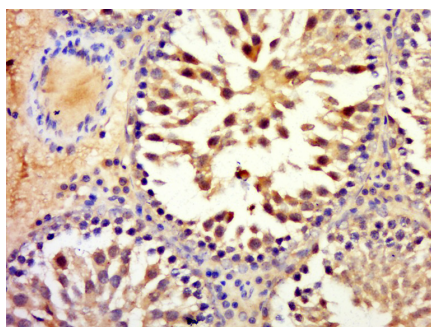
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Images



Sample:
Heart (Mouse) Lysate at 40 ug
Primary: Anti-GDPGP1 (AP55133) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kD
Observed band size: 42 kD



Paraformaldehyde-fixed, paraffin embedded (rat testis);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GDPGP1) Polyclonal Antibody, Unconjugated (AP55133) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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