

# GMPPA Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55167

## Product Information

---

<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q96IJ6</a>
<b>Reactivity</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	46291
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human GMPPA
<b>Epitope Specificity</b>	321-420/420
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SIMILARITY</b>	Belongs to the transferase hexapeptide repeat family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	GMPPA is a GDP-mannose pyrophosphorylase which catalyzes the conversion of mannose-1-phosphate and GTP to GDP-mannose, in the production of N-linked oligosaccharides.

## Additional Information

---

<b>Gene ID</b>	29926
<b>Other Names</b>	Mannose-1-phosphate guanyltransferase alpha, GDP-mannose pyrophosphorylase A, GMPP-alpha, GTP-mannose-1-phosphate guanylyltransferase alpha, GMPPA
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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

---

<b>Name</b>	GMPPA ( <a href="#">HGNC:22923</a> )
-------------	--------------------------------------

<b>Function</b>	Regulatory subunit of the GMPPA-GMPPB mannose-1-phosphate guanylyltransferase complex; reduces the catalytic activity of GMPPB when part of the complex (PubMed: <a href="#">24035193</a> , PubMed: <a href="#">33986552</a> ). Mediates allosteric feedback inhibition of GMPPB catalytic activity upon binding GDP-alpha-D-mannose (PubMed: <a href="#">24035193</a> , PubMed: <a href="#">33986552</a> ). Together with GMPPB regulates GDP-alpha-D-mannose levels (PubMed: <a href="#">33986552</a> ).
<b>Cellular Location</b>	Cytoplasm. Note=Myc-tagged GMPPA shows a diffuse cytoplasmic and nuclear pattern in transfected COS-7 cells
<b>Tissue Location</b>	Expressed in fibroblasts (at protein level).

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