

For Research Use Only

GMPPB Polyclonal antibody

Catalog Number: 15094-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: 15094-1-AP	GenBank Accession Number: BC001141	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 493 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 29925	Recommended Dilutions: WB 1:500-1:2000 IF 1:50-1:500
Source: Rabbit	Full Name: GDP-mannose pyrophosphorylase B	
Isotype: IgG	Calculated MW: 40 kDa	
Immunogen Catalog Number: AG7168	Observed MW: 40-43 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : mouse brain tissue, IF : HEK-293 cells,
Cited Applications: IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, zebrafish	

Background Information

GMPPB is a cytoplasmic enzyme that catalyzes the formation of GDP-mannose, a key substrate for several glycosylation pathways, including O-mannosylation of α -DG. GMPPB facilitates the formation of the sugar donor GDP-mannose and pyrophosphate from mannose-1-phosphate and GTP, a very early step in the glycosylation pathway (PMID: 37834154, 27147698). GMPPB mutations correlate with several congenital diseases, including severe congenital muscular dystrophy (CMD) with abnormalities in the brain and eye (PMID: 26310427,30684953). Western blot analysis detected GMPPB at an apparent molecular mass of 40 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Patricia Franzka	36313076	Front Nutr	WB
Norio Sasaoka	30529953	iScience	WB
Patricia Franzka	34124155	Front Mol Biosci	WB

Storage

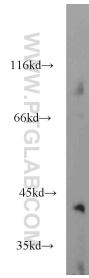
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

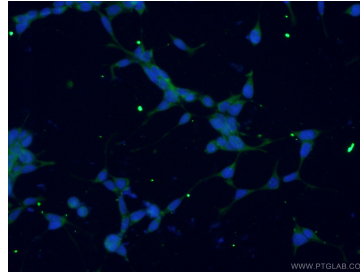
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 15094-1-AP (GMPPB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 15094-1-AP (GMPPB antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).