For Research Use Only

GMDS Polyclonal antibody

Catalog Number:15442-1-AP 5 Publications

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Basic Information

Catalog Number:
15442-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7319

GenBank Accession Number:
BC000117

GeneID (NCBI):
2762

UNIPROT ID:
O60547

Full Name:
GDP-mannose 4,6-dehydratase

Calculated MW:
42 kDa

Observed MW:
40-42 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:500-1:2000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse pancreas tissue, HeLa cells, rat spleen tissue, rat pancreas tissue

IHC : human pancreas cancer tissue, human colon cancer tissue, human lung cancer tissue, human lymphoma tissue

IF/ICC : HeLa cells,

Background Information

GDP-D-mannose-4,6-dehydratase (GMDS) is the key enzyme in the 'de novo' pathway of GDP-L-fucose biosynthesis(PMID:10462046). The enzyme is also named as GMD and belongs to the GDP-mannose 4,6-dehydratase family. The gene encodes a 42 kDa protein that catalyzes the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose, the first step in the synthesis of GDP-fucose from GDP-mannose, using NADP+ as a cofactor.

Notable Publications

Author	Pubmed ID	Journal	Application
Yasuhiko Kizuka	27447047	Cell Chem Biol	WB
Lilli Saarinen	33503764	Mol Cell Proteomics	WB
Lilli Saarinen	30072579	Mol Cell Proteomics	WB

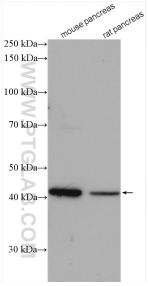
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

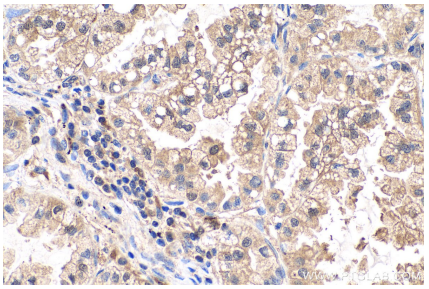
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

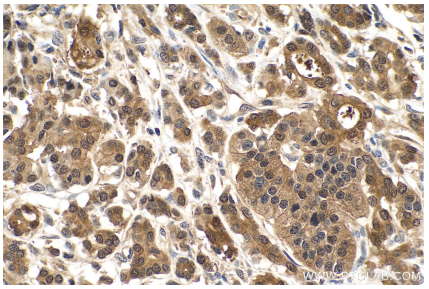
Selected Validation Data



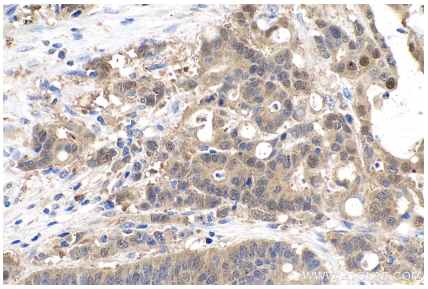
Various lysates were subjected to SDS PAGE followed by western blot with 15442-1-AP (GMDS antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



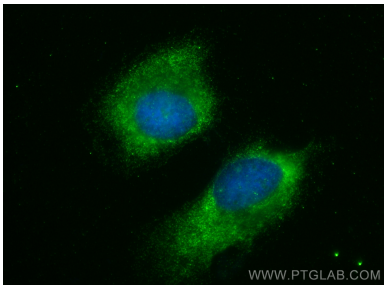
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15442-1-AP (GMDS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 15442-1-AP (GMDS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15442-1-AP (GMDS antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GMDS antibody (15442-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).