

For Research Use Only

# GMPR 1/2 Polyclonal antibody

Catalog Number: 15683-1-AP **4 Publications**



## Basic Information

<b>Catalog Number:</b> 15683-1-AP	<b>GenBank Accession Number:</b> BC008281	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 260 µg/ml	<b>GeneID (NCBI):</b> 2766	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P36959	
<b>Isotype:</b> IgG	<b>Full Name:</b> guanosine monophosphate reductase	
<b>Immunogen Catalog Number:</b> AG8185	<b>Calculated MW:</b> 345 aa, 37 kDa	
	<b>Observed MW:</b> 37 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB: mouse skin tissue, mouse skeletal muscle tissue IHC: human colon cancer tissue,
<b>Cited Applications:</b> WB, IP, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

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

## Background Information

GMPR (Guanosine monophosphate reductase) catalyzes the irreversible NADPH-dependent reductive deamination of guanosine monophosphate (GMP) to inosine monophosphate (IMP). GMPR is able to convert guanosine nucleotides to the pivotal precursor of both guanine (G) and adenine (A) nucleotides. It plays an important role in maintaining the intracellular balance of A and G nucleotides. This antibody can recognize both GMPR1 and GMPR2 due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ping-Yuan Wang	32958587	Cancer Prev Res (Phila)	WB
Anna Bianchi-Smiraglia	34667203	Nat Commun	WB
Nicole M Sayles	35263592	Cell Rep	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

For technical support and original validation data for this product please contact:

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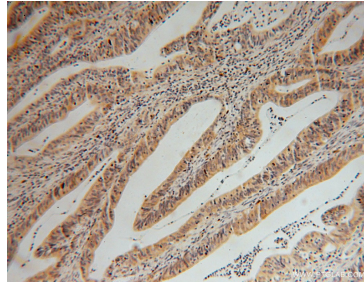
W: [ptgcn.com](http://ptgcn.com)

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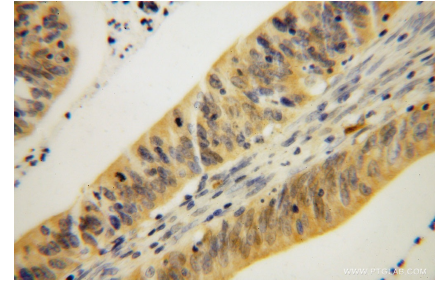
## Selected Validation Data



mouse skin tissue were subjected to SDS PAGE followed by western blot with 15683-1-AP (GMPR 1/2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 15683-1-AP (GMPR 1/2 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 15683-1-AP (GMPR 1/2 antibody) at dilution of 1:100 (under 40x lens).