

For Research Use Only

# MIF4GD Polyclonal antibody

Catalog Number: 24288-1-AP



## Basic Information

<b>Catalog Number:</b> 24288-1-AP	<b>GenBank Accession Number:</b> BC033759	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57409	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> A9UHW6	
<b>Isotype:</b> IgG	<b>Full Name:</b> MIF4G domain containing	
<b>Immunogen Catalog Number:</b> AG17931	<b>Calculated MW:</b> 256 aa, 29 kDa	
	<b>Observed MW:</b> ~25 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> mouse testis tissue,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse testis tissue,

## Background Information

MIF4GD (MIF4G domain containing), also known as MIFD, AD023, or SLIP1, is a 222 amino acid protein that contains one MIF4G domain. Localized to both the nucleus and the cytoplasm, MIF4GD plays a role in the replication-dependent translation of histone mRNAs, which differ from most eukaryotic mRNAs in that they end with a stem-loop instead of a poly-A tail. Specifically, MIF4GD interacts with SLBP, eIF4G and DAP-5. Via its interaction with SLBP, MIF4GD is thought to be tethered to the stem loops of histone mRNAs where it may facilitate the circularizing of the mRNAs, thereby enhancing their translation. Depletion of MIF4GD results in reduced histone translation and may lead to cell death, suggesting that MIF4GD plays an important role in cell survival. Two isoforms of MIF4GD exist due to alternative splicing events.

## Storage

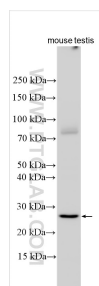
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

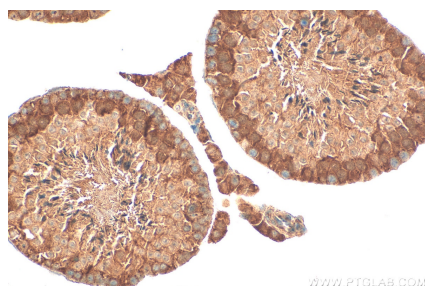
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



mouse testis tissue was subjected to SDS PAGE followed by western blot with 24288-1-AP (MIF4GD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 24288-1-AP (MIF4GD antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).