

For Research Use Only

Melanophilin Monoclonal antibody

Catalog Number: 66092-1-Ig **2 Publications**



Basic Information

Catalog Number: 66092-1-Ig	GenBank Accession Number: BC001653	Purification Method: Protein G purification
Size: 900 µg/ml	GeneID (NCBI): 79083	CloneNo.: 1A8D12
Source: Mouse	UNIPROT ID: Q9BV36	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG1	Full Name: melanophilin	
Immunogen Catalog Number: AG19286	Calculated MW: 66 kDa	
	Observed MW: 66 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : HEK-293 cells, pig brain tissue, PC-3 cells, Jurkat cells, human brain tissue IHC : human kidney tissue, human skin cancer tissue IF : HepG2 cells,
Cited Applications: WB, IF	
Species Specificity: human, pig	
Cited Species: human, rat	

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

Melanophilin (MLPH) is a member of the exophilin subfamily of Rab effector proteins. MLPH is a modular protein, forming a ternary complex with the small Ras-related GTPase Rab27A in its GTP-bound form and the motor protein myosin Va. It regulates retention of melanosomes at the peripheral actin cytoskeleton of melanocytes, a process essential for normal mammalian pigmentation. Defects in MLPH are a cause of Griscelli syndrome type 3 (GS3), which is characterized by a silver-gray hair color and abnormal pigment distribution in the hair shaft.

Notable Publications

Author	Pubmed ID	Journal	Application
Shuhui Qi	31322203	Mol Med Rep	WB
Wentao Shi	37524274	Int J Biol Macromol	WB,IF

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:

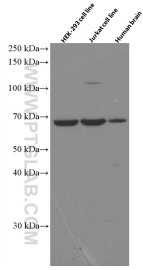
T: 4006900926

E: Proteintech-CN@ptglab.com

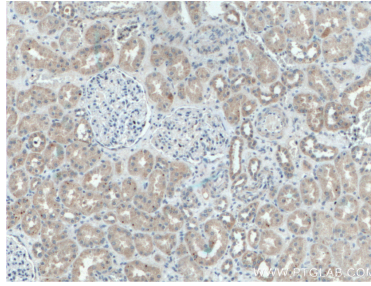
W: ptgcn.com

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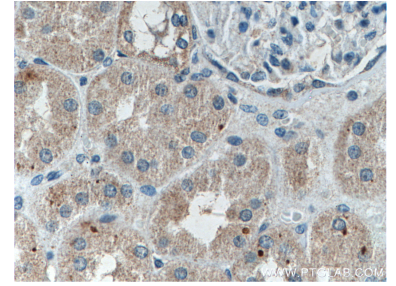
Selected Validation Data



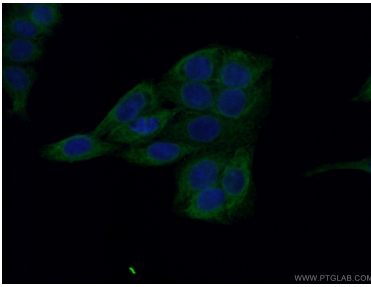
Various lysates were subjected to SDS PAGE followed by western blot with 66092-1-Ig (Melanophilin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66092-1-Ig (Melanophilin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66092-1-Ig (Melanophilin antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed Hep2 cells using 66092-1-Ig (Melanophilin antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).