

MICAL1 Polyclonal antibody

Catalog Number: 14818-1-AP

Featured Product

25 Publications

Basic Information

Catalog Number:

14818-1-AP

Concentration:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6578

GenBank Accession Number:

BC052983

GeneID (NCBI):

64780

UNIPROT ID:

Q8TDZ2

Full Name:

microtubule associated
monooxygenase, calponin and LIM
domain containing 1

Calculated MW:

118 kDa

Observed MW:

120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total
protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human

Cited Species:

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**

Positive Controls:

WB : Jurkat cells, HEK-293 cells, HeLa cells, human
brain tissue, T-47D cells

IP : HeLa cells, T-47D cells

IHC : human lung tissue, human heart tissue, human
ovary tissue, human placenta tissue, human skin
tissue, human spleen tissue, human testis tissue

IF/ICC : A549 cells, HeLa cells

Background Information

MICALs (Molecules Interacting with CasL) are atypical multidomain flavoenzymes with diverse cellular functions. There are three known isoforms, MICAL1, MICAL2 and MICAL3, as well as the MICAL-like proteins MICAL-L1 and MICAL-L2. MICAL1 has four conserved domains: an N-terminal flavin adenine dinucleotide (FAD) binding domain, a calponin homology (CH) domain, a Lin11, Isl-1 and Mec-3 (LIM) domain and a C-terminal coiled-coil (CC) domain. MICAL1 is reported to regulate actin stress fibers and be required for normal actin organization. It may also be involved in apoptosis through binding with NDR (nuclear Dbf2-related) kinases. This antibody specially recognizes MICAL1.

Notable Publications

Author	Pubmed ID	Journal	Application
Sharon C Hook	33087848	Sci Rep	WB
Mst Sharifa Jahan	36451778	IBRO Neurosci Rep	IHC
Ze Zhang	34750518	Oncogene	IHC

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

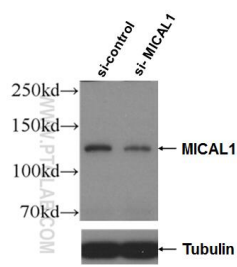
For technical support and original validation data for this product please contact:

T: 4006900926

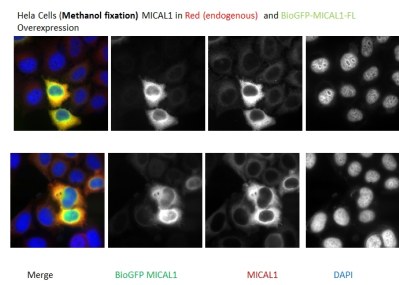
E: Proteintech-CN@ptglab.comW: ptgcn.com

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other manufacturer.**

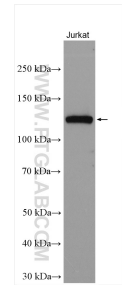
Selected Validation Data



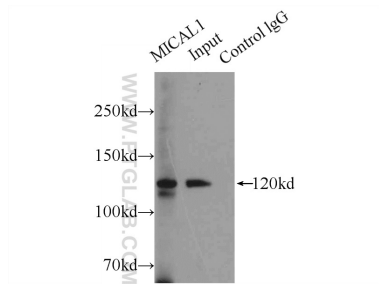
WB result of MICAL1 antibody (14818-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MICAL1 transfected HeLa cells.



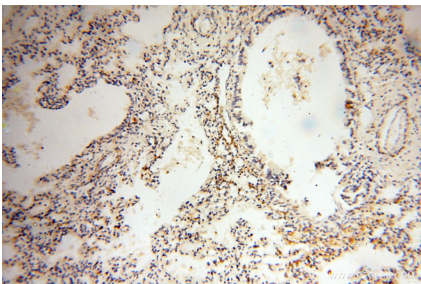
IF result of MICAL1 antibody (14818-1-AP) with HeLa Cells (Methanol fixation) MICAL1 in Red (endogenous) and BioGFP-MICAL1-FL overexpression. Courtesy of Qingyang Liu, Utrecht University.



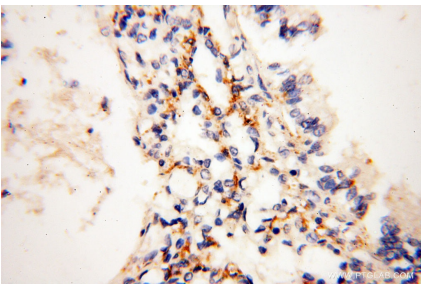
Jurkat cells were subjected to SDS PAGE followed by western blot with 14818-1-AP (MICAL1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



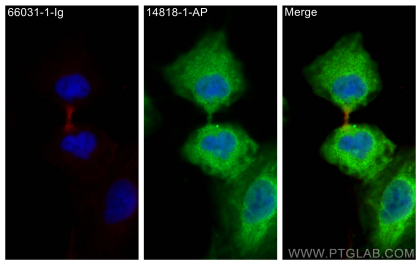
IP result of anti-MICAL1 (IP: 14818-1-AP, 5ug; Detection: 14818-1-AP 1:1000) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human lung using 14818-1-AP (MICAL1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung using 14818-1-AP (MICAL1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using MICAL1 antibody (14818-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).