MICAL2 Polyclonal antibody

Catalog Number: 13965-1-AP

For Research Use Only

Basic Information

- **Catalog Number:** 13965-1-AP
- **Size:** 150μl, Concentration: 700μg/ml by Nanodrop;
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG4950
- **GenBank Accession Number:** BC044577
- **GeneID (NCBI):** 9645
- **Full Name:** microtubule associated monoxygenase, calponin and LIM domain containing 2
- **Calculated MW:** 127 kDa
- **Observed MW:** 95 kDa, 112 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:** WB 1:200-1:1000; IHC 1:50-1:500; IF 1:200-1:800

Applications

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** CoIP, IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **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

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. MICAL2 has three conserved domains: an N-terminal flavin adenine dinucleotide (FAD) binding domain, a calponin homology (CH) domain, and a Lin11, Isl-1, and Mec-3 (LIM) domain. It has been demonstrated that MICAL2 could regulate actin stress fibers and is required for normal actin organization. In addition, MICAL2-PV, a novel splicing variant of MICAL2, has been reported to be involved in cancer progression of prostate cancer. This antibody can recognize both MICAL2 and MICAL2-PV. This antibody recognizes various isoforms of MICAL2 around 90-95 kDa or 109-112 kDa.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jingxia Han</td>
<td>36271377</td>
<td>J Nanobiotechnology</td>
<td>WB, IHC</td>
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<tr>
<td>Chenxiang Qi</td>
<td>34650666</td>
<td>Oxid Med Cell Longev</td>
<td>WB</td>
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<td>Ze Zhang</td>
<td>34750518</td>
<td>Oncogene</td>
<td>WB, ColP, IHC, IF</td>
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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: (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
PC-3 cells were subjected to SDS PAGE followed by western blot with 13965-1-AP (MICAL2 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using MICAL2 antibody (13965-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).