

Datasheet for ABIN7141990  
**anti-MICAL1 antibody (AA 806-1067)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µL
Target:	MICAL1
Binding Specificity:	AA 806-1067
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MICAL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA

## Product Details

Immunogen:	Recombinant Human [F-actin]-methionine sulfoxide oxidase MICAL1 protein (806-1067AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	MICAL1
Alternative Name:	MICAL1 ( <a href="#">MICAL1 Products</a> )
Background:	Background: Monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin. Acts by modifying actin subunits through the

## Target Details

addition of oxygen to form methionine-sulfoxide, leading to promote actin filament severing and prevent repolymerization (Probable). Acts as a cytoskeletal regulator that connects NEDD9 to intermediate filaments. Also acts as a negative regulator of apoptosis via its interaction with STK38 and STK38L, acts by antagonizing STK38 and STK38L activation by MST1/STK4. Involved in regulation of lamina-specific connectivity in the nervous system such as the development of lamina-restricted hippocampal connections. Through redox regulation of the actin cytoskeleton controls the intracellular distribution of secretory vesicles containing L1/neurofascin/NgCAM family proteins in neurons, thereby regulating their cell surface levels (By similarity). May act as Rab effector protein and play a role in vesicle trafficking.

Aliases: CasL interacting molecule antibody, DKFZp434B1517 antibody, FLJ11937 antibody, FLJ21739 antibody, MICA1\_HUMAN antibody, MICAL 1 antibody, MICAL antibody, MICAL1 antibody, microtubule associated monooxygenase, calponin and LIM domain containing 1 antibody, Molecule interacting with CasL protein 1 antibody, NEDD9 interacting protein with calponin homology and LIM domains antibody, NEDD9-interacting protein with calponin homology and LIM domains antibody, NICAL antibody, OTTHUMP00000016969 antibody

UniProt: [Q8TDZ2](#)

## Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

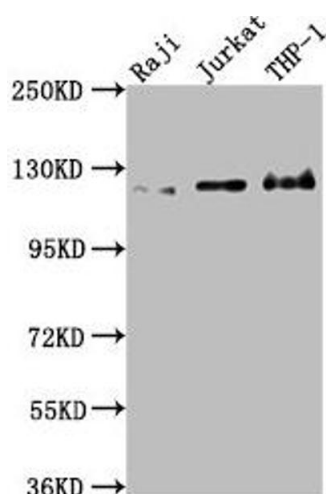
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

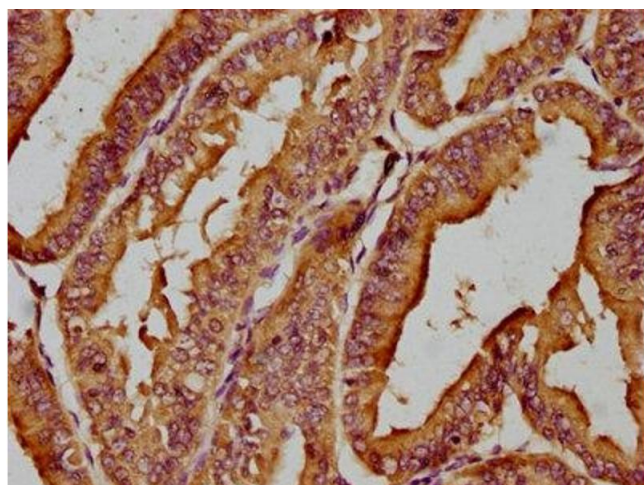
Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



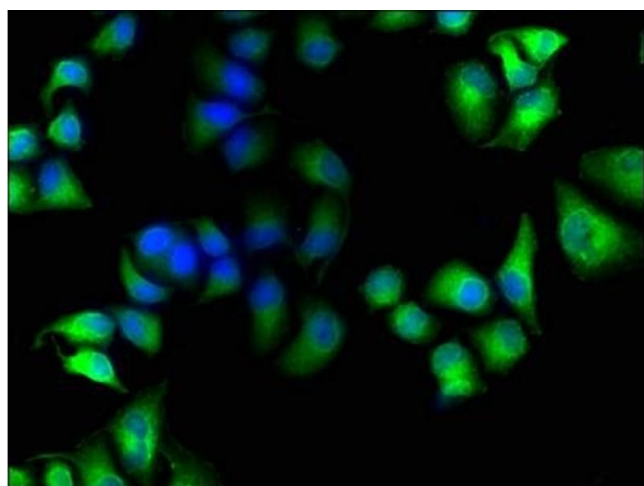
### Western Blotting

**Image 1.** Western Blot Positive WB detected in: Raji whole cell lysate, Jurkat whole cell lysate, THP-1 whole cell lysate. All lanes: MICAL1 antibody at 1:2000. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 118, 109, 38, 120 kDa. Observed band size: 120 kDa.



### Immunohistochemistry

**Image 2.** IHC image of ABIN7141990 diluted at 1:200 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



### Immunofluorescence

**Image 3.** Immunofluorescence staining of HeLa cells with ABIN7141990 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).