

Rabbit MICAL3 Polyclonal Antibody | anti-MICAL3 antibody

Anti-MICAL3 Antibody Picoband

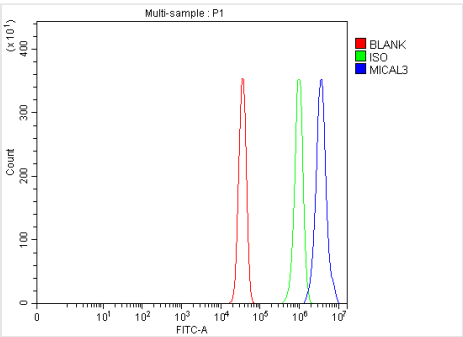
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127500	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

MICAL3; Polyclonal Antibody; Anti-MICAL3 Antibody Picoband; anti-MICAL3 antibody

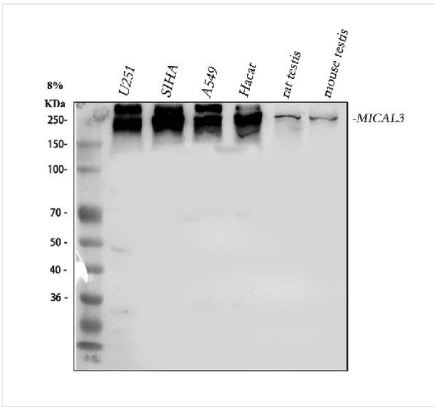
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MICAL3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human MICAL3 recombinant protein (Position: K458-L1592). Human MICAL3 shares 81.9% amino acid (aa) sequence identity with mouse MICAL3.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-MICAL3 antibody (AAA127500). Overlay histogram showing U251 cells stained with AAA127500 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MICAL3 Antibody (AAA127500, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of MICAL3 using anti-MICAL3 antibody (AAA127500). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U251 whole cell lysates, Lane 2: human SiHa whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human Hecate whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: mouse testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MICAL3 antigen affinity purified polyclonal antibody (#AAA127500) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MICAL3 at approximately 224-280 kDa. The expected band size for MICAL3 is at 224 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MICAL3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MICAL3 antibody	Primary Antibodies
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 1/28/2015.2. Li, C., Gonsalves, C. S., Eiyomo Mwa Mpollo, M.-S., Malik, P., Tahara, S. M., Kalra, V. K. MicroRNA 648 targets ET-1 mRNA and is cotranscriptionally regulated with MICAL3 by PAX5. Molec. Cell. Biol. 35: 514-528, 2015.3. Nagase, T., Kikuno, R., Ishikawa, K., Hirose, M., Ohara, O. Prediction of the coding sequences of unidentified human genes. XVI. The complete sequences of 150 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 7: 65-73, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170172518
NCBI GeneID	57553
NCBI Accession #	NP_001116203.1
NCBI GenBank Nucleotide #	NM_001122731.2
UniProt Accession #	Q7RTP6; O94909; Q5U4P4; Q6ICK4; Q96DF2; Q9P2I3; B2RXJ5; E9PEF0
Molecular Weight	224,295 Da
NCBI Official Full Name	protein-methionine sulfoxide oxidase MICAL3 isoform 3
NCBI Official Synonym Full Names	microtubule associated monooxygenase, calponin and LIM domain containing 3

NCBI Official Symbol	MICAL3
NCBI Official Synonym Symbols	MICAL-3
NCBI Protein Information	protein-methionine sulfoxide oxidase MICAL3; protein MICAL-3; flavoprotein oxidoreductase MICAL3; molecule interacting with CasL protein 3
UniProt Protein Name	Protein-methionine sulfoxide oxidase MICAL3
UniProt Gene Name	MICAL3
UniProt Synonym Gene Names	KIAA0819; KIAA1364; MICAL-3
UniProt Entry Name	MICA3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/mical3-antibody-flow-cytometry-western-blot-elisa/127500>