Datasheet for ABIN7601787

anti-MICAL3 antibody (AA 458-1592)

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Overview

Quantity:	100 µg
Target:	MICAL3
Binding Specificity:	AA 458-1592
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MICAL3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MICAL3 Antibody Picoband®
Immunogen:	E.coli-derived human MICAL3 recombinant protein (Position: K458-L1592). Human MICAL3 shares 81.9% amino acid (aa) sequence identity with mouse MICAL3.
Characteristics:	Anti-MICAL3 Antibody Picoband® (ABIN7601787). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	MICAL3
Alternative Name:	MICAL3 (MICAL3 Products)
Background:	Microtubule-associated monoxygenase, calponin and LIM domain containing 3, also known as MICAL3, is a human gene. MICAL3 (microtubule associated monoxygenase, calponin and LIM domain containing 3), also known as KIAA1364, is a 976 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one LIM zinc-binding domain and one calponin-homology domain. Expressed ubiquitously, MICAL3 uses FAD as a cofactor to interact with Rab 1B and, via this interaction, is thought to play a role in spermatid development. MICAL3 exists as two alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 22q11.21. Chromosome 22 houses over 500 genes, some of which are involved in Phelan-McDermid syndrome, schizophrenia and Neurofibromatosis type 2.
Molecular Weight:	224-280 kDa
Gene ID:	57553

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Hartz, P. A. Personal Communication. Baltimore, Md. 1/28/2015. 2. Li, C., Gonsalves, C. S., Eiymo 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., Hirosawa, 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.