

## Anti-MINDY4 Antibody Picoband®

Catalog Number: A32449-1

### About MINDY4

MINDY lysine 48 deubiquitinase 4, also known as MINDY4, is a human gene. MINDY4 (MINDY Lysine 48 Deubiquitinase 4, also designated AQP1, AQP-1, CHIP28, C7orf67, and FAM188B) is a protein coding gene located on human chromosome 7p14.3. The human MINDY4 gene encodes a 757 amino acids protein containing 84372 Da. The MINDY4 protein is broadly expressed in testis, lung and other tissues. The MINDY4 gene is conserved in chimpanzee, dog, cow, mouse, rat, chicken, zebrafish, and frog. 330 organisms have orthologs with human gene MINDY4. MINDY4B is an important paralog of this MINDY4 gene.

### Overview

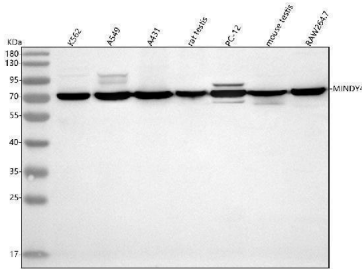
Product Name	Anti-MINDY4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MINDY4 Antibody Picoband® catalog # A32449-1. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q4G0A6

### Technical Details

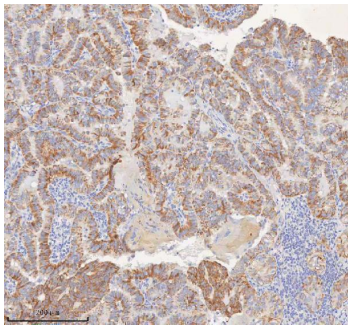
Immunogen	E.coli-derived human MINDY4 recombinant protein (Position: E414-Q685). Human MINDY4 shares 87.5% amino acid (aa) sequence identity with mouse MINDY4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

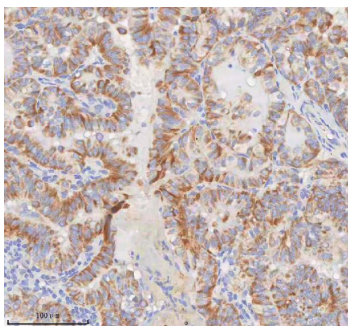
## Anti-MINDY4 Antibody Picoband® (A32449-1) Images



Western blot analysis of MINDY4 using anti-MINDY4 antibody (A32449-1). 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 K562 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: rat PC-12 whole cell lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse RAW264.7 whole cell 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-MINDY4 antigen affinity purified polyclonal antibody (Catalog # A32449-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MINDY4 at approximately 72 kDa. The expected band size for MINDY4 is at 84 kDa.



IHC analysis of MINDY4 using anti-MINDY4 antibody (A32449-1). MINDY4 was detected in a paraffin-embedded section of human thyroid papillary carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MINDY4 Antibody (A32449-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of MINDY4 using anti-MINDY4 antibody (A32449-1). MINDY4 was detected in a paraffin-embedded section of human thyroid papillary carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MINDY4 Antibody (A32449-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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### Anti-MINDY4 Antibody

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