

Rabbit MINDY4 Polyclonal Antibody | anti-MINDY4 antibody

Anti-MINDY4 Antibody Picoband

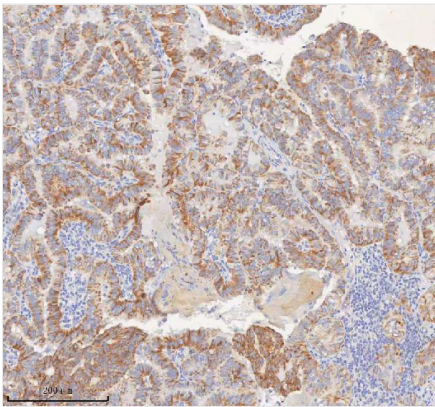
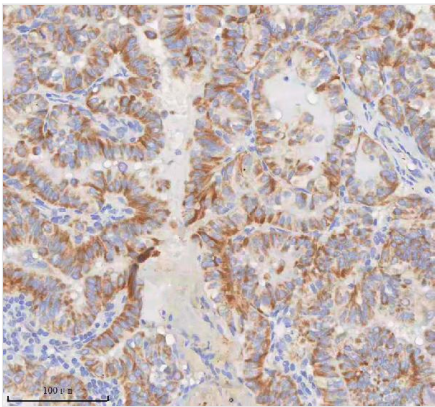
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127943	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MINDY4; Polyclonal Antibody; Anti-MINDY4 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-MINDY4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MINDY4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MINDY4 recombinant protein (Position: E414-Q685). Human MINDY4 shares 87.5% amino acid (aa) sequence identity with mouse MINDY4.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.

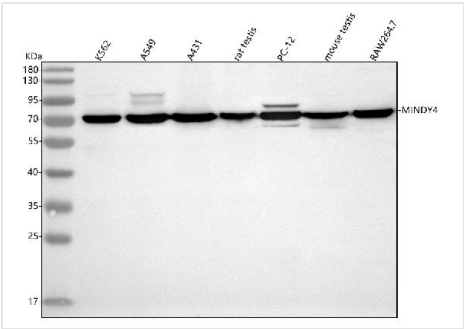


IHC (Immunohistochemistry)

Figure 3. IHC analysis of MINDY4 using anti-MINDY4 antibody (AAA127943).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 2ug/ml rabbit anti-MINDY4 Antibody (AAA127943) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

IHC (Immunohistochemistry)

Figure 2. IHC analysis of MINDY4 using anti-MINDY4 antibody (AAA127943).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 2ug/ml rabbit anti-MINDY4 Antibody (AAA127943) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MINDY4 using anti-MINDY4 antibody (AAA127943).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 (#AAA127943) 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 MINDY4 at approximately 72 kDa. The expected band size for MINDY4 is at 84 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MINDY4 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-MINDY4 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins

References	1. Urabe, Y., Tanikawa, C., Takahashi, A., Okada, Y., Morizono, T., Tsunoda, T., ... & Matsuda, K. (2012). A genome-wide association study of nephrolithiasis in the Japanese population identifies novel susceptible Loci at 5q35. 3, 7p14. 3, and 13q14. 1. PLoS genetics, 8(3), e1002541.2. Choi, E. S., Lee, H., Sung, J. Y., Lee, C. H., Jang, H., Kim, K. T., ... & Goh, S. H. (2018). FAM188B enhances cell survival via interaction with USP7. Cell death & disease, 9(6), 633.3. Kwasna, D., Rehman, S. A. A., Natarajan, J., Matthews, S., Madden, R., De Cesare, V., ... & Kulathu, Y. (2018). Discovery and characterization of ZUFSP/ZUP1, a distinct deubiquitinase class important for genome stability. Molecular cell, 70(1), 150-164.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	93102405
NCBI GeneID	84182
NCBI Accession #	NP_115598.2
NCBI GenBank Nucleotide #	NM_032222.2
UniProt Accession #	Q4G0A6; Q71AZ7; Q9H6D2
Molecular Weight	84,372 Da
NCBI Official Full Name	probable ubiquitin carboxyl-terminal hydrolase MINDY-4
NCBI Official Synonym Full Names	MINDY lysine 48 deubiquitinase 4
NCBI Official Symbol	MINDY4
NCBI Official Synonym Symbols	C7orf67; FAM188B
NCBI Protein Information	probable ubiquitin carboxyl-terminal hydrolase MINDY-4
UniProt Protein Name	Probable ubiquitin carboxyl-terminal hydrolase MINDY-4
UniProt Gene Name	MINDY4

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.