

Anti-PANK1 Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Mouse,Rat (predicted:Human,Dog,Pig,Cow,Sheep) |
| Molecular Weight: | Theoretical: 64 kDa. Actual: 60/50 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | 1. Sample: Lane 1: Kidney (Mouse) Lysate at 40 µg Lane 2: Cerebellum (Mouse) Lysate at 40 µg Lane 3: Cerebrum (Mouse) Lysate at 40 µg Lane 4: Cerebellum (Rat) Lysate at 40 µg Primary: Anti-PANK1 (TMAB-09961) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60/50 kD Observed band size: 60/50 kD |
| | 2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PANK1) Polyclonal Antibody, Unconjugated (TMAB-09961) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| Application: | WB,IHC-P,IHC-Fr,IF |
| Recommended | WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human PANK1 |
| Antigen Species: | Human |
| Gene ID: | 53354 |
| Uniprot ID: | Q8TE04 |

Research Background

The pantothenate kinase (PANK) family of proteins catalyzes the first step in coenzyme A (CoA). Pantothenate kinase 1 (PANK1) is a 598 amino acid member of the pantothenate kinase family that plays a role in the physiological regulation of the intracellular CoA concentration. Localized to the cytoplasm, PANK1 is strongly inhibited by acetyl-CoA and manyl-CoA, as well as by high concentration of non-esterified CoA (CoASH). Four known isoforms of PANK1 exist as a result of alternative splicing events. Of these isoforms, PANK1a and PANK1b have been identified as the

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catalytically active isoforms. Isoform PANK1a is most highly expressed in brain, heart, kidney, liver, skeletal muscle and kidney. Isoform PANK1b is detected at much lower levels in kidney, liver, brain and testis and is not detected in heart or skeletal muscle.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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