



# PNKD Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-05976                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>                | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                   | PNKD KIAA1184 MR1 TAHCCP2 FKSG19 UNQ2491/PRO5778                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | Synthesized peptide derived from human protein . at AA range: 140-220                                                                                                                                                                                                                                                                                                                                   |
| <b>Specificity</b>                 | PNKD Polyclonal Antibody detects endogenous levels of protein.                                                                                                                                                                                                                                                                                                                                          |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                   |
| <b>Dilution</b>                    | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                    | BRP17;DYT8;FKSG19;FPD1;KIAA1184;KIPP1184;MR 1;MR1; Myofibrillogenesis regulator 1;PDC;PNKD;Probable hydrolase PNKD;TAHCCP2; UNQ2491/PRO5778;PNKD KIAA1184 MR1 TAHCCP2 FKSG19 UNQ2491/ PRO5778;Probable hydrolase PNKD (EC 3.-.-.) (Myofibrillogenesis regulator 1) (MR-1) (Paroxysmal nonkinesigenic dyskinesia protein) (Trans-activated by hepatitis C virus core protein 2)                          |
| <b>Observed Band</b>               | 42kD                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Calculated Molecular Weight</b> | 42kD                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cell Pathway</b>                | [Isoform 1]: Membrane; Peripheral membrane protein.; [Isoform 2]: Cytoplasm. Nucleus.; [Isoform 3]: Mitochondrion.                                                                                                                                                                                                                                                                                      |
| <b>Tissue Specificity</b>          | Isoform 1 is only expressed in the brain. Isoform 2 is ubiquitously detected with highest expression in skeletal muscle and detected in myocardial myofibrils. Variant Val-7 and Val-9 are detected in the brain only.                                                                                                                                                                                  |
| <b>Function</b>                    | disease:Defects in PNKD are the cause of dystonia type 8 (DYT8) [MIM:118800] . DYT8 is a paroxysmal non-kinesigenic dystonia/dyskinesia. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. DYT8 is characterized by attacks of involuntary movements brought on by stress, alcohol, fatigue or caffeine. The attacks generally last |



between a few seconds and four hours or longer. The attacks may begin in one limb and spread throughout the body, including the face.,function:Probable hydrolase that plays an aggravative role in the development of cardiac hypertrophy via activation of the NF-kappa-B signaling pathway.,induction:By Hepatitis C virus core protein.,PTM:Isoform 2 is phosphorylated at Ser-121 upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family.,subunit:I

#### Background

This gene is thought to play a role in the regulation of myofibrillogenesis. Mutations in this gene have been associated with the movement disorder paroxysmal non-kinesigenic dyskinesia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010],

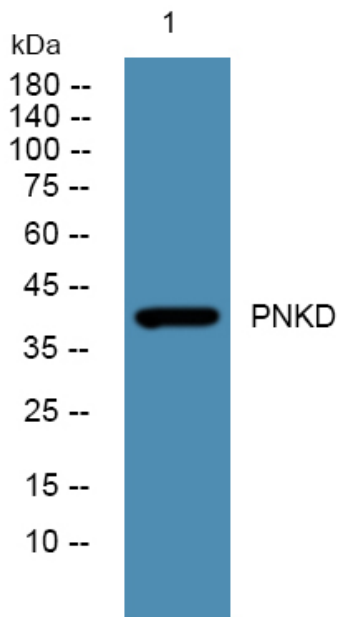
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night