

**PEK/PERK rabbit pAb****Cat#: orb771781 (Manual)**

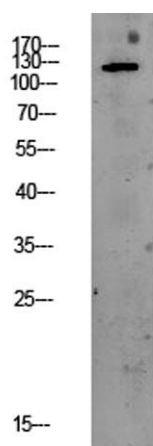
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|                                 |                                                                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>             | PEK/PERK rabbit pAb                                                                                                                                     |
| <b>Host species</b>             | Rabbit                                                                                                                                                  |
| <b>Applications</b>             | WB;ELISA                                                                                                                                                |
| <b>Species Cross-Reactivity</b> | Human;Mouse;Rat                                                                                                                                         |
| <b>Recommended dilutions</b>    | WB 1:500-2000, ELISA 1:10000-20000                                                                                                                      |
| <b>Immunogen</b>                | Synthesized peptide derived from human PEK/PERK Polyclonal                                                                                              |
| <b>Specificity</b>              | This antibody detects endogenous levels of PEK/PERK.                                                                                                    |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..                                                                                |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.                                                                                                      |
| <b>Protein Name</b>             | Eukaryotic translation initiation factor 2-alpha kinase 3 (EC 2.7.11.1) (PRKR-like endoplasmic reticulum kinase) (Pancreatic eIF2-alpha kinase) (HsPEK) |
| <b>Gene Name</b>                | EIF2AK3 PEK PERK                                                                                                                                        |
| <b>Cellular localization</b>    | Endoplasmic reticulum membrane; Single-pass type I membrane protein.                                                                                    |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                   |

|                                |                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clonality</b>               | Polyclonal                                                                                                                                              |
| <b>Concentration</b>           | 1 mg/ml                                                                                                                                                 |
| <b>Observed band</b>           | 130kD                                                                                                                                                   |
| <b>Human Gene ID</b>           | 9451                                                                                                                                                    |
| <b>Human Swiss-Prot Number</b> | Q9NZJ5                                                                                                                                                  |
| <b>Alternative Names</b>       | Eukaryotic translation initiation factor 2-alpha kinase 3 (EC 2.7.11.1) (PRKR-like endoplasmic reticulum kinase) (Pancreatic eIF2-alpha kinase) (HsPEK) |

### Background

The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by misfolded proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015],



**Western blot analysis of CACO2 lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000**