

**PERK (phospho Thr981) rabbit pAb****Cat#: orb764402 (Manual)**

For research use only. Not intended for diagnostic use.

<b>Product Name</b>	PERK (phospho Thr981) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IF;WB;IHC;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	IF: 1:50-200 WB 1:500-2000 ,Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PEK/PERK around the phosphorylation site of Thr981. AA range:947-996
<b>Specificity</b>	Phospho-PERK (T981) Polyclonal Antibody detects endogenous levels of PERK protein only when phosphorylated at T981.
<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
<b>Gene Name</b>	EIF2AK3
<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>	EIF2AK3; PEK; PERK; Eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; HsPEK
<b>Background</b>	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],