

## Product datasheet for **AP55771PU-N**

### PERK (EIF2AK3) pThr981 Rabbit Polyclonal Antibody

#### Product data:

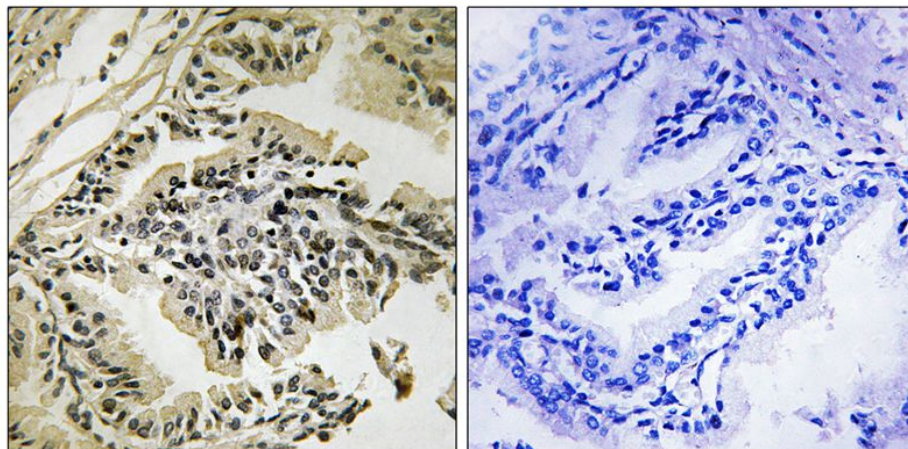
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections:</b> 1:50~1:100 .
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of threonine 981(A-R-H(p)-T-G) derived from Human PEK/PERK (KLH-conjugated)
Specificity:	The antibody detects endogenous levels of PEK/PERK only when phosphorylated at threonine 981.
Formulation:	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	125 kDa
Gene Name:	eukaryotic translation initiation factor 2 alpha kinase 3
Database Link:	<a href="#">Entrez Gene 9451 Human Q9NZJ5</a>
Background:	Phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2), leading to its inactivation and thus to a rapid reduction of translational initiation and repression of global protein synthesis. Serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due to the loss of cyclin-D1 (CCND1)



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Synonyms: PEK, PERK, HsPEK

**Product images:**



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using PEK/PERK (Phospho-Thr981) antibody (left) or the same antibody preincubated with blocking peptide (right).